2018 Catalog

High Performance Balances and Scales

Ingenious Portfolio

Our rich history and extensive industry knowledge have resulted in a comprehensive line of high-performance balances and scales that continually meet our customers' weighing needs at cost-effective prices.

Look inside for NEW 2018 product information!

Ingeniously Practical

English

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Discover our ingenious portfolio

1 *Scout®STX*

Ideal for laboratory & industrial applications, the OHAUS Scout features an easy to navigate color touchscreen display & a slim design which allows stackable storage.

see page 16

2 *Explorer® Semi-Micro*

When laboratory work and research requires accuracy to the hundred-thousandth, there is simply no room for error. The Explorer series of semi-micro balances has been designed with the technology to ensure that your very specific weighing results are accurate.

see page 9

3 *Valor 2000*

The OHAUS Valor 2000 water resistant food scale raises the bar and sets a new industry standard with the winning combination of speed and durability.

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8 and Portable Precision balances
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Analytical Balances 10 Explorer® Analytical
11 Adventurer® Analytical
12 Pioneer™ Analytical
Precision Balances 13 Explorer® Precision / High Capacity
14 Adventurer® Precision
15 Pioneer™ Precision
Precision Portable Balances 16 Scout® STX
17 Scout® SKX
18 Navigator® / Navigator® NV / Navigator® XL
19 Traveler
20 CS Series / CSE Series / CL Series
21 YA Gold Series / Emerald Series
Moisture Analysers 21 MC2000
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Floor Scales 26 VFS Series Stainless Steel Floor Scales
27 VFP Series Floor Scales
28 VE Series Stainless Steel Floor Scales
29 VE Series Floor Scales
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VFSP Series Stainless Steel Pallet Scales
Pallet Scales 30 / VFPP Series Pallet Scales
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Bench Scales 32 Defender™ 5000 Stainless Steel
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Shipping Scales 47 Catapult™ 5000 / SD Series
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Accessories

INTERFACES
BATTERY
AUXILIARY DISPLAY
PRINTERS
COVERS
CABLES
COLUMNS AND MOUNTS
RAMPS
PIT FRAMES
PAN ACCESSORIES
DENSITY KITS
MB ACCESSORIES
ANTI THEFT-DEVICES
TRANSPORT CASES
SOFTWARE
OTHER

Features

INTERNAL ADJUSTMENT
USB INTERFACE
RS232 INTERFACE
ANALOGUE INPUT
EC TYPE APPROVED
IP DUST AND WATER PROTECTED
BATTERY (NOT SUPPLIED)
RECHARGEABLE BATTERY
AUTO DOOR
KNOWLEDGE AND/OR TOOLS NEEDED
IONIZER

NEW

Laboratory Balances
– applications & features

	Semi-Micro, Analytical & Precision					Portable Precision							
	EX 5d	EX	EX HC	AX	PA	STX	SKX	NV	TA	CS	CSE	CL	JE/YA
Parts Counting	●	●	●	●	●	●		●					
Percentage Weighing	●	●	●	●	●	●		●					
Below Balance Weighing	●	●	●	●	●	●	●		●				
Custom unit – Factor entry	●	●	●	●	●	●							
Checkweighing	●	●	●	●		●		●					
Dynamic/Animal Weighing	●	●	●	●	●	●							
Gross/Net/Tare	●	●	●										
Totalization	●	●	●	●		●		●					
Statistics	●	●	●	●									
Differential Weighing	●	●	●										
Filling	●	●	●										
Density Determination	●	●	●	●	●	●	●						
Pipette Adjustment	●	●											
Display Hold	●	●	●			●		●					
Formulation	●	●	●										
Ingredient Costing		●	●										
SQC	●	●	●										
Mole weighing						●	●						
High Point	●	●	●										
Mains Operation	●	●	●	●	●	●	●	●	●	●	●*	●*	
Battery Operation						●	●	●	●	●*	●	●	●
Rechargeable battery			●*					●*					
LCD					●				●	●	●	●	
Backlit LCD							●	●					●
Full colour VGA touch display	●	●	●	●		●							
Multi Language	●	●	●	●		●							
Auto Door	●*	●*											
Ionizer	●*	●*		●*	●*								
RS232	●	●	●	●	●	●	●	●	●				
2nd RS232	●	●	●										
USB	●	●	●	●		●	●	●	●				
Ethernet	●	●	●			●	●	●					
Bluetooth						●	●						
GLP Time/Date	●	●	●	●		●							
Auto Internal Adjustment					●*								
Advanced AutoCal™	●	●*	●	●*									
EC Type Approval	●*	●*	●*	●*	●*			●*					
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- ● standard
- ●* on specific models
- ● optional
- ●* accessory

To follow regulations, some applications may not be available on EC Type approved Models

Industry Scales
– applications & features

	Compact & counting scales														Modular scales & indicators							
										Ranger							D2000	D3000 VE	DF3000	D5000 VF	D7000	D8000
	Catapult 1000	Catapult 5000	NV XT	V1000	V2000	V3000	V4000	V7000	FD	Count 4000	4000	3000 Count	3000	7000	SD	D2000	T24PE	T31P/T32XW	T32M	T51P/T51XW	T71P/T72XW	T82XW[w]
Max Resolution	2000	3000	20000	6000	7500	20000	7500	30000	30000	30000	30000	30000	30000	350000	3500	7500	20000	20000	20000	30000	50000	1000K
Parts counting			●					●		●	●	●	●	●		●	●	●	●	●	●	●
Checkweighing			●	●	●*		●	●	●	●	●	●	●	●					●	●	●	●
Percentage Weighing			●			●	●	●	●		●		●	●						●	●	
Totalling		●	●	●			●	●		●	●	●	●	●		●	●		●		●	●
Dynamic weighing		●						●			●		●	●						●	●	
Weighing below								●			●	●	●	●								
Custom unit – Factor entry														●						●	●	
Auto Tare									●	●	●			●						●	●	
Peak/Hold			●					●			●		●	●					●	●	●	
Numeric Keyboard										●		●		●							●	●
Touchless sensor			●				●	●														
LCD Display	●													●	●							
Backlit LCD Display			●	●		●		●	●	●		●	●						●	●*	●	●***	
LED display		●			●		●				●					●	●			●*			
Battery Operation	●		●			●		●		●	●	●	●		●						●*	●*	
Rechargeable battery		●	●	●	●		●	●	●	●	●	●	●	●		●	●	●			●	●	
RS232 interface included		●	●					●		●	●	●	●	●		●	●	●	●	●	●	●	●
USB and/or Ethernet			●					●		●	●	●	●	●									●
[2nd] RS interface								●		●	●	●	●	●							●	●	●
Time / Date														●						●	●	
GMP Data Output														●						●	●	
IP 65 / 68 Protection					●	●*	●											●*		●*	●*	●
Alibi Memory														●							●	●
EC Type Approval			●*			●*	●*	●*	●*	●*	●*	●*	●*	●				●*	●**	●*	●*	●**
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●* on specific models; ●**Approvable by Notified Body; ●*** Alphanumeric keyboard; ● Optional 1 application depends on selected software
To follow regulations, some applications may not be available on EC Type approved models.

Industrial scales

Readability [d]	Capacity max (kg)	Model	Page	M* EC type approval	Internal Adjustment	Counting	RS232 Interface	USB Interface	IP 65 / 68	Rechargeable battery	Battery operation**
0.01g	0.2	V31XH202	45								•
0.01g	0.4	V31XH402	45								•
0.01g	3	R71MHD3	37		•		•	•		●	
0.02g	6	R71MHD6	37		•		•	•		●	
0.05g	1.5	V71P1502T	42				•	●		•	
0.05g	1.5	R31P1502	40			•	•	●		•	
0.05g	1.5	RC31P1502	41			•	•	●		•	
0.05g	3	R71MD3	37				•	•		●	
0.1g	0.3	V31XW301	45						•		•
0.1g	0.5	V31XH501	45								•
0.1g	1.6	NVT1601	48			•	●	●		●	•
0.1g	2	V31XH2	45								•
0.1g	3	FD3H	43							•	
0.1g	3	V71P3T	42				•	●		•	
0.1g	3	R31P3	40			•	•	●		•	
0.1g	3	RC31P3	41			•	•	●		•	
0.1g	3	R41ME3	38			•	•	●		•	
0.1g	3	RC41M3	39			•	•	●		•	
0.1g	3	R71MHD3-M	37	•	•		•	•		●	
0.1g	4	V31XH4	45								•
0.1g	6	R71MD6	37				•	•		●	
0.1g	15	R71MHD15	37		•		•	•		●	
0.1g	35	R71MHD35	37		•		•	•		●	
0.2g	1.5	V22PWE1501T	46						•	•	
0.2g	1.5	V22XWE1501T	46						•	•	
0.2g	1.5	V41PWE1501T	44						•	•	
0.2g	1.5	V41XWE1501T	44						•	•	
0.2g	3.2	NVT3201	48			•	●	●		●	•
0.2g	6	FD6H	43							•	
0.2g	6	V71P6T	42				•	●		•	
0.2g	6	R31P6	40			•	•	●		•	
0.2g	6	RC31P6	41			•	•	●		•	
0.2g	6	R41ME6	38			•	•	●		•	
0.2g	6	RC41M6	39			•	•	●		•	
0.2g	6	R71MHD6-M	37	•	•		•	•		●	
0.2g	15	R71MD15	37				•	•		●	
0.5g	1.5	V41PWE1501T-M	44	•					•	•	
0.5g	1.5	V41XWE1501T-M	44	•					•	•	
0.5g	1.5	V71P1502T-M	42	•			•	●		•	
0.5g	1.5	R31P1502-M	40	•		•	•	●		•	
0.5g	1.5	RC31P1502-M	41	•		•	•	●		•	
0.5g	1.6	NVT1601M	48	•		•	●	●		●	•
0.5g	3	V11P3	46							•	
0.5g	3	V22PWE3T	46						•	•	
0.5g	3	V22XWE3T	46						•	•	
0.5g	3	V31XW3	45						•		•
0.5g	3	V41PWE3T	44						•	•	
0.5g	3	V41XWE3T	44						•	•	
0.5g	3	FD3	43							•	
0.5g	3	R71MD3-M	37	•			•	•		●	
0.5g	6.4	NVT6401	48			•	●	●		●	•
0.5g	10	NVT10001	48			•	●	●		●	•
0.5g	15	V71P15T	42				•	●		•	
0.5g	15	R31P15	40			•	•	●		•	
0.5g	15	RC31P15	41			•	•	●		•	
0.5g	15	R41ME15	38			•	•	●		•	
0.5g	15	RC41M15	39			•	•	●		•	
0.5g	35	R71MD35	37				•	•		●	
1g	3	V31X3	45								•
1g	3	V41PWE3T-M	44	•					•	•	
1g	3	V41XWE3T-M	44	•					•	•	
1g	3	FD3-M	43	•						•	
1g	3	V71P3T-M	42	•			•	●		•	
1g	3	R31P3-M	40	•		•	•	●		•	
1g	3	RC31P3-M	41	•		•	•	●		•	
1g	3.2	NVT3200M	48	•		•	●	●		●	•
1g	6	V11P6	46							•	
1g	6	V22PWE6T	46						•	•	
1g	6	V22XWE6T	46						•	•	
1g	6	V31X6	45								•
1g	6	V31XW6	45						•		•
1g	6	V41PWE6T	44						•	•	
1g	6	V41XWE6T	44						•	•	
1g	6	FD6	43							•	
1g	6	R71MD6-M	37	•			•	•		●	
1g	15	FD15H	43							•	
1g	15	R71MHD15-M	37	•	•		•	•		●	
1g	15	D51P15QR1	33			•	•			●	•
1g	15	D51P15HR1	33			•	•			●	•
1g	15	D51XW15WR3	32			•	•		•	●	
1g	16	NVT16000	48			•	●	●		●	•
1g	30	V71P30T	42				•	●		•	
1g	30	R31P30	40			•	•	●		•	
1g	30	RC31P30	41			•	•	●		•	
1g	30	R41ME30	38			•	•	●		•	

Readability [d]	Capacity max (kg)	Model	Page	M* EC type approval	Internal Adjustment	Counting	RS232 Interface	USB Interface	IP 65 / 68	Rechargeable battery	Battery operation**
1g	30	RC41M30	39			•	•	●		•	
1g	35	R71MHD35-M	37	•	•		•	•		●	
1g	60	R71MD60	37				•	•		●	
2g	6	V41PWE6T-M	44	•					•	•	
2g	6	V41XWE6T-M	44	•					•	•	
2g	6	FD6-M	43	•						•	
2g	6	V71P6T-M	42	•			•	●		•	
2g	6	R31P6-M	40	•		•	•	●		•	
2g	6	RC31P6-M	41	•		•	•	●		•	
2g	6	C51XE6R	47				●			●	
2g	6.4	NVT6400M	48	•		•	●	●		●	•
2g	15	V11P15	46							•	
2g	15	V22PWE15T	46						•	•	
2g	15	V22XWE15T	46						•	•	
2g	15	V41PWE15T	44						•	•	
2g	15	V41XWE15T	44						•	•	
2g	15	FD15	43							•	
2g	15	R71MD15-M	37	•			•	•		●	
2g	15	D31P15BR5	35			•	•			•	
2g	15	D31P15BR	35			•	•			•	
2g	15	D32XW15BR	34			•		•	•	•	
2g	15	D32XW15VR	34			•		•	•	•	
2g	30	D51P30QR1	33			•	•			●	•
2g	30	D51P30HR1	33			•	•			●	•
2g	30	D51XW30WR3	32			•	•		•	●	
5g	9	C11P9	48								•
5g	15	V41PWE15T-M	44	•					•	•	
5g	15	V41XWE15T-M	44	•					•	•	
5g	15	FD15-M	43	•						•	
5g	15	V71P15T-M	42	•			•	●		•	
5g	15	R31P15-M	40	•		•	•	●		•	
5g	15	RC31P15-M	41	•		•	•	●		•	
5g	15	D31P15BR5-M	35	•			•			•	
5g	15	D31P15BR-M	35	•		•	•			•	
5g	15	D32XW15BR-M	34	•		•	•		•	•	
5g	15	D32XW15VR-M	34	•		•	•		•	•	
5g	15	D51P15QR1-M	33	•		•	•			●	•
5g	15	D51P15HR1-M	33	•		•	•			●	•
5g	15	D51XW15WR3-M	32	•		•	•		•	●	
5g	15	D51XW15WR3-MB	32	•		•	•		•	•	
5g	16	NVT16000M	48	•		•	●	●		●	•
5g	30	V11P30	46							•	
5g	30	V22PWE30T	46						•	•	
5g	30	V22XWE30T	46						•	•	
5g	30	D24PE30FR	36				●			•	
5g	30	D31P30BR	35			•	•			•	
5g	30	D32XW30BR	34			•	•		•	•	
5g	30	D31P30BR5	35			•	•			•	
5g	30	D32XW30VR	34			•	•		•	•	
5g	35	R71MD35-M	37	•			•	•		●	
5g	60	D51P60HR1	33			•	•			●	•
5g	60	D51P60HL2	33			•	•			●	•
5g	60	D51P60QL2	33			•	•			●	•
5g	60	D51XW60WL4	32			•	•		•	●	
10g	20	C11P20	48								•
10g	30	V71P30T-M	42	•			•	●		•	
10g	30	R31P30-M	40	•		•	•	●		•	
10g	30	RC31P30-M	41	•		•	•	●		•	
10g	30	C51XE30R	47				●			●	
10g	30	C51XE30L	47				●			●	
10g	30	C51XE30X	47				●			●	
10g	30	D31P30BR-M	35	•			•			•	
10g	30	D31P30BR5-M	35	•		•	•			•	
10g	30	D32XW30BR-M	34	•			•		•	•	
10g	30	D32XW30VR-M	34	•			•		•	•	
10g	30	D51P30QR1-M	33	•		•	•			●	•
10g	30	D51P30HR1-M	33	•		•	•			●	•
10g	30	D51XW30WR3-M	32	•		•	•		•	●	
10g	30	D51XW30WR3-MB	32	•		•	•		•	•	
10g	60	R71MD60-M	37	•			•	•		●	
10g	60	D24PE60FR	36				●			•	
10g	60	D31P60BR	35			•	•			•	
10g	60	D31P60BR5	35			•	•			•	
10g	60	D31P60BL	35			•	•			•	
10g	60	D31P60BL5	35			•	•			•	
10g	60	D32XW60BR	34			•	•		•	•	
10g	60	D32XW60BL	34			•	•		•	•	
10g	60	D32XW60VR	34			•	•		•	•	
10g	60	D32XW60VL	34			•	•		•	•	
10g	150	D51P150QL2	33			•	•			●	•
10g	150	D51P150HX2	33			•	•			●	•
10g	150	D51XW150WL4	32			•	•		•	●	
20g	35	SD35	47								•
20g	50	C51XE50R	47				●			●	
20g	50	C51XE50L	47				●			●	

• Standard; ● Optional; *not all features/applications are available on approved models; **batteries are not supplied

Quick Finder

Industrial scales

Readability (d)	Capacity max (kg)	Model	Page	M* EC type approval	Internal Adjustment	Counting	RS232 Interface	USB Interface	IP 65 / 68	Rechargeable battery	Battery operation**
20g	50	C51XE50X	47				●			●	
20g	60	D31P60BR	35	●			●			●	
20g	60	D31P60BR5-M	35	●		●	●			●	
20g	60	D31P60BL-M	35	●			●			●	
20g	60	D31P60BL5-M	35	●		●	●			●	
20g	60	D32XW60BR-M	34	●			●		●	●	
20g	60	D32XW60BL-M	34	●			●		●	●	
20g	60	D32XW60VR-M	34	●			●		●	●	
20g	60	D32XW60VL-M	34	●			●		●	●	
20g	60	D51P60HR1-M	33	●		●	●			●	●
20g	60	D51P60HL2-M	33	●		●	●			●	●
20g	60	D51P60QL2-M	33	●			●			●	●
20g	60	D51XW60WL4-M	32	●		●	●		●	●	
20g	60	D51XW60WL4-MB	32	●		●	●		●	●	
20g	150	D24PE150FX	36				●			●	
20g	150	D31P150BL	35			●	●			●	
20g	150	D31P150BX	35			●	●			●	
20g	150	D32XW150BL	34			●	●		●	●	
20g	150	D32XW150BX	34			●	●		●	●	
20g	150	D32XW150VL	34			●	●		●	●	
20g	150	D32XW150VX	34			●	●		●	●	
20g	300	D51P300HX2	33			●	●			●	●
20g	300	D51P300QX2	33			●	●			●	●
20g	300	D51XW300WX4	32			●	●		●	●	
50g	75	C11P75	48								●
50g	75	SD75	47								●
50g	75	SD75L	47								●
50g	100	C51XE100L	47				●			●	
50g	100	C51XE100X	47				●			●	
50g	150	D31P150BL-M	35	●			●			●	
50g	150	D31P150BX-M	35	●			●			●	
50g	150	D32XW150BL-M	34	●			●		●	●	
50g	150	D32XW150BX-M	34	●			●		●	●	
50g	150	D32XW150VL-M	34	●			●		●	●	
50g	150	D32XW150VX-M	34	●			●		●	●	
50g	150	D51P150QL2-M	33	●		●	●			●	●
50g	150	D51P150HX2-M	33	●		●	●			●	●
50g	150	D51XW150WL4-M	32	●		●	●		●	●	
50g	150	D51XW150WL4-MB	32	●		●	●		●	●	
50g	300	D24PE300FX	36				●			●	
50g	300	D24PE300FV	36				●			●	
50g	300	D31P300BX	35			●	●			●	
50g	300	D32XW300BX	34			●	●		●	●	
50g	300	D32XW300VX	34			●	●		●	●	
50g	300	VFP-CS30051P	27			●	●			●	●
50g	300	VFP-DS30051P	27			●	●			●	●
50g	300	VFS-CS30051XW	26			●	●		●	●	
50g	300	VFS-DS30051XW	26			●	●		●	●	
100g	200	SD200	47								●
100g	200	SD200L	47								●
100g	200	C51XE200R	47				●			●	
100g	200	C51XE200L	47				●			●	
100g	200	C51XE200X	47				●			●	
100g	300	D31P300BX-M	35	●			●			●	
100g	300	D32XW300BX-M	34	●			●		●	●	
100g	300	D32XW300VX-M	34	●			●		●	●	
100g	300	D51P300HX2-M	33	●		●	●			●	●
100g	300	D51P300QX2-M	33	●		●	●			●	●
100g	300	D51XW300WX4-M	32	●		●	●		●	●	
100g	300	D51XW300WX4-MB	32	●		●	●		●	●	
100g	300	VFP-CS30051PM	27	●		●	●			●	●
100g	300	VFP-DS30051PM	27	●		●	●			●	●
100g	300	VFS-CS30051XWM	26	●		●	●		●	●	
100g	300	VFS-DS30051XWM	26	●		●	●		●	●	
100g	300	D24PE600FV	36				●			●	
100g	600	VFP-CS60051P	27			●	●			●	●
100g	600	VFP-DS60051P	27			●	●			●	●
100g	600	VFP-E60051P	27			●	●			●	●
100g	600	VFP-ES60051P	27			●	●			●	●
100g	600	VFS-CS60051XW	26			●	●		●	●	
100g	600	VFS-DS60051XW	26			●	●		●	●	
100g	600	VFS-E60051XW	26			●	●		●	●	
100g	600	VFS-ES60051XW	26			●	●		●	●	
100g	600	VFPP-60051P	30			●	●			●	●
100g	600	VFSP-60051XW	30			●	●		●	●	
200g	500	VFP-G150051P	27			●	●			●	●
200g	600	VFP-CS60051PM	27	●		●	●			●	●
200g	600	VFP-DS60051PM	27	●		●	●			●	●
200g	600	VFP-E60051PM	27	●		●	●			●	●
200g	600	VFP-ES60051PM	27	●		●	●			●	●
200g	600	VFS-CS60051XWM	26	●		●	●		●	●	
200g	600	VFS-DS60051XWM	26	●		●	●		●	●	
200g	600	VFS-E60051XWM	26	●		●	●		●	●	
200g	600	VFS-ES60051XWM	26	●		●	●		●	●	
200g	600	VFPP-60051PM	30	●		●	●			●	●

Readability (d)	Capacity max (kg)	Model	Page	M* EC type approval	Internal Adjustment	Counting	RS232 Interface	USB Interface	IP 65 / 68	Rechargeable battery	Battery operation**
200g	600	VFSP-60051XWM	30	●		●	●		●	●	
200g	1500	VFP-DS150051P	27			●	●			●	●
200g	1500	VFP-E150051P	27			●	●			●	●
200g	1500	VFP-ES150051P	27			●	●			●	●
200g	1500	VFS-DS150051XW	26			●	●		●	●	
200g	1500	VFS-E150051XW	26			●	●		●	●	
200g	1500	VFS-ES150051XW	26			●	●		●	●	
200g	1500	VFS-G150051XW	26			●	●		●	●	
200g	1500	VFPP-150051P	30			●	●			●	●
200g	1500	VFSP-150051XW	30			●	●		●	●	
500g	1500	DF32M1500BS	29			●	●				
500g	1500	DF32M1500BR	29			●	●				
500g	1500	DF32M1500BL	29			●	●				
500g	1500	DF32M1500BX	29			●	●				
500g	1500	DF32M1500BLX	29			●	●				
500g	1500	VE1500S31P	29			●	●			●	
500g	1500	VE1500R31P	29			●	●			●	
500g	1500	VE1500L31P	29			●	●			●	
500g	1500	VE1500S31P-M	29	●		●	●			●	
500g	1500	VE1500R31P-M	29	●		●	●			●	
500g	1500	VE1500L31P-M	29	●		●	●			●	
500g	1500	VE1500S32XW	28			●	●		●	●	
500g	1500	VE1500R32XW	28			●	●		●	●	
500g	1500	VE1500L32XW	28			●	●		●	●	
500g	1500	VE1500S32XW-M	28	●		●	●		●	●	
500g	1500	VE1500R32XW-M	28	●		●	●		●	●	
500g	1500	VE1500L32XW-M	28	●		●	●		●	●	
500g	1500	VE1500P31P	31			●	●			●	
500g	1500	VE1500P31P-M	31	●		●	●			●	
500g	1500	VE1500P32XW	31			●	●		●	●	
500g	1500	VE1500P32XW-M	31	●		●	●		●	●	
500g	1500	VFP-DS150051PM	27	●		●	●			●	●
500g	1500	VFP-E150051PM	27	●		●	●			●	●
500g	1500	VFP-ES150051PM	27	●		●	●			●	●
500g	1500	VFP-G150051PM	27	●		●	●			●	●
500g	1500	VFS-DS150051XWM	26	●		●	●		●	●	
500g	1500	VFS-E150051XWM	26	●		●	●		●	●	
500g	1500	VFS-ES150051XWM	26	●		●	●		●	●	
500g	1500	VFS-G150051XWM	26	●		●	●		●	●	
500g	1500	VFPP-150051PM	30	●		●	●			●	●
500g	1500	VFSP-150051XWM	30	●		●	●		●	●	
500g	3000	VFP-E300051P	27			●	●			●	●
500g	3000	VFP-ES300051P	27			●	●			●	●
500g	3000	VFP-G300051P	27			●	●			●	●
500g	3000	VFS-E300051XW	26			●	●		●	●	
500g	3000	VFS-ES300051XW	26			●	●		●	●	
500g	3000	VFS-G300051XW	26			●	●		●	●	
1000g	3000	DF32M3000BL	29			●	●				
1000g	3000	DF32M3000BX	29			●	●				
1000g	3000	DF32M3000BLX	29			●	●				
1000g	3000	VE3000R31P	29			●	●			●	
1000g	3000	VE3000L31P	29			●	●			●	
1000g	3000	VE3000R31P-M	29	●		●	●			●	
1000g	3000	VE3000L31P-M	29	●		●	●			●	
1000g	3000	VE3000R32XW	28			●	●		●	●	
1000g	3000	VE3000L32XW	28			●	●		●	●	
1000g	3000	VE3000R32XW-M	28	●		●	●		●	●	
1000g	3000	VE3000L32XW-M	28	●		●	●		●	●	
1000g	3000	VFP-E300051PM	27	●		●	●			●	●
1000g	3000	VFP-ES300051PM	27	●		●	●			●	●
1000g	3000	VFP-G300051PM	27	●		●	●			●	●
1000g	3000	VFS-E300051XWM	26	●		●	●		●	●	
1000g	3000	VFS-ES300051XWM	26	●		●	●		●	●	
1000g	3000	VFS-G300051XWM	26	●		●	●		●	●	

• Standard; • Optional; *not all features/applications are available on approved models; **batteries are not supplied

Semi-Micro, Analytical, Precision and Portable Precision balances

Readability [d]	Capacity max (g)	Model	Page	Internal Adjustment	ExCal	M* EC type approval	RS232 Interface	USB Interface	PCS	%	Battery operation**
0,01mg	52	EX125D	9	•			•	•	•	•	
0,01mg	52	EX125DM	9	•		•	•	•	•	•	
0,01mg	120	EX125	9	•			•	•	•	•	
0,01mg	120	EX125M	9	•		•	•	•	•	•	
0,01mg	120	EX225D	9	•			•	•	•	•	
0,01mg	120	EX225DM	9	•		•	•	•	•	•	
0,01mg	120	EX225D/AD	9	•			•	•	•	•	
0,01mg	120	EX225DM/AD	9	•		•	•	•	•	•	
0,01mg	220	EX225/AD	9	•			•	•	•	•	
0,01mg	220	EX225M/AD	9	•		•	•	•	•	•	
0,1mg	120	PA124	12		•		•		•	•	
0,1mg	120	PA124C	12	•			•		•	•	
0,1mg	120	PA124CM/2	12	•		•	•		•	•	
0,1mg	120	AX124/E	11		•		•	•	•	•	
0,1mg	120	AX124	11	•			•	•	•	•	
0,1mg	120	AX124M	11	•		•	•	•	•	•	
0,1mg	120	EX124	10	•			•	•	•	•	
0,1mg	120	EX124/AD	10	•			•	•	•	•	
0,1mg	120	EX125D	9	•			•	•	•	•	
0,1mg	120	EX125DM	9	•		•	•	•	•	•	
0,1mg	210	PA214CM/2	12	•		•	•		•	•	
0,1mg	220	PA224	12		•		•		•	•	
0,1mg	220	PA224C	12	•			•		•	•	
0,1mg	220	AX224/E	11		•		•	•	•	•	
0,1mg	220	AX224	11	•			•	•	•	•	
0,1mg	220	AX224M	11	•		•	•	•	•	•	
0,1mg	220	EX224	10	•			•	•	•	•	
0,1mg	220	EX224/AD	10	•			•	•	•	•	
0,1mg	220	EX224M	10	•		•	•	•	•	•	
0,1mg	220	EX224M/AD	10	•		•	•	•	•	•	
0,1mg	220	EX225D	9	•			•	•	•	•	
0,1mg	220	EX225DM	9	•		•	•	•	•	•	
0,1mg	220	EX225D/AD	9	•			•	•	•	•	
0,1mg	220	EX225DM/AD	9	•		•	•	•	•	•	
0,1mg	320	AX324	11	•			•	•	•	•	
0,1mg	320	AX324M	11	•		•	•	•	•	•	
0,1mg	320	EX324	10	•			•	•	•	•	
0,1mg	320	EX324/AD	10	•			•	•	•	•	
0,1mg	320	EX324M	10	•		•	•	•	•	•	
0,1mg	320	EX324M/AD	10	•		•	•	•	•	•	
1mg	120	SKX123	17		•		•	•			•
1mg	120	STX123	16		•		•	•	•	•	•
1mg	220	STX223	16		•		•	•	•	•	•
1mg	220	PA223	15		•		•		•	•	
1mg	220	PA223C	15	•			•		•	•	
1mg	220	PA223CM/2	15	•		•	•		•	•	
1mg	220	AX223/E	14		•		•	•	•	•	
1mg	220	AX223	14	•			•	•	•	•	
1mg	220	AX223M	14	•		•	•	•	•	•	
1mg	220	EX223/E	13		•		•	•	•	•	
1mg	220	EX223	13	•			•	•	•	•	
1mg	420	PA423	15		•		•		•	•	
1mg	420	PA423C	15	•			•		•	•	
1mg	420	PA423CM/2	15	•		•	•		•	•	
1mg	420	AX423/E	14		•		•	•	•	•	
1mg	420	AX423	14	•			•	•	•	•	
1mg	420	AX423M	14	•		•	•	•	•	•	
1mg	420	EX423/E	13		•		•	•	•	•	
1mg	420	EX423	13	•			•	•	•	•	
1mg	420	EX423M	13	•		•	•	•	•	•	
1mg	520	AX523/E	14		•		•	•	•	•	
1mg	520	AX523	14	•			•	•	•	•	
1mg	520	AX523M	14	•		•	•	•	•	•	
1mg	620	EX623	13	•			•	•	•	•	
1mg	1100	EX1103	13	•			•	•	•	•	
1mg	1100	EX1103M	13	•		•	•	•	•	•	
0,01g	100	YA102	21		•						
0,01g	150	TA152	19		•		•	•			•
0,01g	210	NV212	18		•		•	•	•	•	
0,01g	220	SKX222	17		•		•	•			•
0,01g	220	STX222	16		•		•	•	•	•	•
0,01g	300	TA302	19		•		•	•			•
0,01g	420	SKX422	17				•	•			
0,01g	420	STX422	16				•	•			
0,01g	420	AX422/E	14		•		•	•	•	•	
0,01g	420	AX422	14	•			•	•	•	•	
0,01g	500	TA502	19		•		•	•			•
0,01g	620	SKX622	17		•		•	•			•
0,01g	620	STX622	16		•		•	•	•	•	•
0,01g	820	AX822/E	14		•		•	•	•	•	
0,01g	820	AX822	14	•			•	•	•	•	
0,01g	1200	SKX1202	17		•		•	•			•
0,01g	1200	STX1202	16		•		•	•	•	•	•
0,01g	1520	AX1502/E	14		•		•	•	•	•	
0,01g	1520	AX1502	14	•			•	•	•	•	
0,01g	1520	AX1502M	14	•		•	•	•	•	•	
0,01g	2200	SKX2202	17		•		•	•			•
0,01g	2200	STX2202	16		•		•	•	•	•	•

Readability [d]	Capacity max (g)	Model	Price €	Page	Internal Adjustment	ExCal	M* EC type approval	RS232 Interface	USB Interface	PCS	%	Battery operation**
0,01g	2200	PA2202		15		•		•		•	•	
0,01g	2200	PA2202C		15	•			•		•	•	
0,01g	2200	PA2202CM/2		15	•		•	•		•	•	
0,01g	2200	AX2202/E		14		•		•	•	•	•	
0,01g	2200	AX2202		14	•			•	•	•	•	
0,01g	2200	AX2202M		14	•		•	•	•	•	•	
0,01g	2200	EX2202/E		13		•		•	•	•	•	
0,01g	2200	EX2202		13	•			•	•	•	•	
0,01g	4100	PA4102CM/2		15	•		•	•		•	•	
0,01g	4200	PA4202		15		•		•		•	•	
0,01g	4200	PA4202C		15	•			•		•	•	
0,01g	4200	AX4202/E		14		•		•	•	•	•	
0,01g	4200	AX4202		14	•			•	•	•	•	
0,01g	4200	AX4202M		14	•		•	•	•	•	•	
0,01g	4200	EX4202/E		13		•		•	•	•	•	
0,01g	4200	EX4202		13	•			•	•	•	•	
0,01g	4200	EX4202M		13	•		•	•	•	•	•	
0,01g	5200	AX5202		14	•			•	•	•	•	
0,01g	5200	AX5202M		14	•		•	•	•	•	•	
0,01g	6200	EX6202/E		13		•		•	•	•	•	
0,01g	6200	EX6202		13	•			•	•	•	•	
0,01g	10200	EX10202		13	•			•	•	•	•	
0,01g	10200	EX10202M		13	•		•	•	•	•	•	
0,05g	300	YA302		21		•						•
0,1g	120	JE120		21		•						•
0,1g	200	CL201		20		•						•
0,1g	200	CS200		20		•						•
0,1g	250	JE250		21		•						•
0,1g	300	TA301		19		•		•	•			•
0,1g	420	SKX421		17		•		•	•			•
0,1g	420	STX421		16		•		•	•	•	•	•
0,1g	500	JE500		21		•						•
0,1g	500	YA501		21		•						•
0,1g	500	CL501		20		•						•
0,1g	500	TA501		19		•		•	•			•
0,1g	510	NV511		18		•						
0,1g	510	NVL511		18		•						•
0,1g	600	CS600		18		•						•
0,1g	620	SKX621		17		•		•	•			•
0,1g	620	STX621		16		•		•	•	•	•	•
0,1g	1100	NV1101		18		•						
0,1g	1100	NVL1101		18		•						•
0,1g	1500	TA1501		19		•		•	•			•
0,1g	2100	NV2101		18		•						
0,1g	2100	NVL2101		18		•						•
0,1g	2200	SKX2201		17		•		•	•			•
0,1g	2200	STX2201		16		•		•	•	•	•	•
0,1g	2200	AX2201/E		14		•		•	•	•	•	
0,1g	2200	AX2201		14	•			•	•	•	•	
0,1g	3000	TA3001		19		•		•	•			•
0,1g	4200	PA4201		15		•		•		•	•	
0,1g	4200	PA4201C		15	•			•		•	•	
0,1g	4200	AX4201/E		14		•		•	•	•	•	
0,1g	4200	AX4201		14	•			•	•	•	•	
0,1g	6200	SKX6201		17		•		•	•			•
0,1g	6200	STX6201		16		•		•	•	•	•	•
0,1g	6200	EX6201/E		13		•		•	•	•	•	
0,1g	6200	EX6201		13	•			•	•	•	•	
0,1g	8200	AX8201/E		14		•		•	•	•	•	
0,1g	8200	AX8201		14	•			•	•	•	•	
0,1g	8200	AX8201M		14	•		•	•	•	•	•	
0,1g	10200	EX10201		13	•			•	•	•	•	
0,1g	10200	EX10201M		13	•		•	•	•	•	•	
0,1g	12000	EX12001		13	•			•	•	•	•	•
0,1g	12000	EX12001M		13	•		•	•	•	•	•	•
0,1g	24000	EX24001		13	•			•	•	•	•	•
0,1g	24000	EX24001M		13	•		•	•	•	•	•	•
0,1g	35000	EX35001		13	•			•	•	•	•	•
0,1g	35000	EX35001M		13	•		•	•	•	•	•	•
0,2g	4100	NV4101		18		•		•	•	•	•	
0,5g	5100	NV5101		18		•		•	•	•	•	
0,5g	5100	NVL5101		18		•		•	•	•	•	•
1g	2000	CL2000		20		•						•
1g	2000	CS2000		20		•						•
1g	3100	NV3100M		18		•	•	•	•	•	•	
1g	5000	CL5000		20		•						•
1g	5000	CS5000		20		•						•
1g	5000	TA5000		19		•		•	•			•
1g	8200	SKX8200		17		•		•	•			•
1g	8200	STX8200		16		•		•	•	•	•	•
1g	10000	NVL10000		18		•		•	•	•	•	•
1g	20000	NVL20000		18		•		•	•	•	•	•

• Standard; • Optional; *not all features/applications are available on approved models; **batteries are not supplied

Quick Finder

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Built for sophisticated, professional weighing

- **Intelligent performance for applications requiring extreme accuracy**
- **Intuitive software provides an extremely modern user experience**
- **Ingenious construction designed to enhance usability**

Application Weighing, percent weighing, parts counting, check weighing, dynamic/animal weighing, filling, totalization, formulation, differential weighing, density determination, peak hold, pipette adjustment, SQC

Display Full-colour VGA graphic display (5.7 in. diagonal), 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation AC Adapter (included)

Communication Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port. GLP/GMP data output with real time clock. Data transfer function.

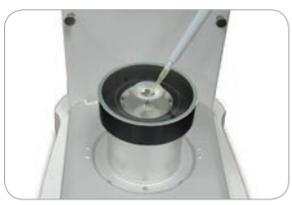
Construction Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door on specific models

Design Features AutoCal™ fully-automatic internal adjustment system equipped with 2 internal adjustment weights, fast stabilization time, four touchless sensors, built-in ionizer with automatic door models, up to 14 operating languages, approved models available, save to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby

Model	M APP	AUTO DOOR	IONS	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
EX125D				52g;120g	0,01mg; 0,1mg		Ø 80 mm	100g, E2	30218998
EX125DM	•			52g;120g	0,01mg; 0,1mg	1 mg	Ø 80 mm	100g, E2	30139515
EX125				120g	0,01mg		Ø 80 mm	100g, E2	30218999
EX125M	•			120g	0,01mg	1 mg	Ø 80 mm	100g, E2	30139516
EX225D				120g;220g	0,01mg; 0,1mg		Ø 80 mm	200g, E2	30219000
EX225DM	•			120g;220g	0,01mg; 0,1mg	1 mg	Ø 80 mm	200g, E2	30139517
EX225D/AD		•	•	120g;220g	0,01mg; 0,1mg		Ø 80 mm	200g, E2	30219001
EX225DM/AD	•	•	•	120g;220g	0,01mg; 0,1mg	1 mg	Ø 80 mm	200g, E2	30139518
EX225/AD		•	•	220g	0,01mg		Ø 80 mm	200g, E2	30219002
EX225M/AD	•	•	•	220g	0,01mg	1 mg	Ø 80 mm	200g, E2	30139519

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
Grid pan, EX Semi-Micro	30298582
Pipette Adjustment Kit, EX Semi-Micro	30252145
Static Ionizer, ION-100A	30095929



PIPETTE ADJUSTMENT KIT EX SEMI-MICRO

STATIC IONIZER, ION-100A

GRID PAN, EX SEMI-MICRO

Explorer® Analytical

Highest performance, most technically advanced balance from OHAUS available also with auto door feature

- **High resolution multi-lingual colour VGA touch display with icons for simple operation**
- **Programmable multi-functional touch-free sensors for cleanliness, speed and safety**
- **Multiple application modes plus library for storage of personal application settings**

Application Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, checkweighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment, gross/net/tare weighing

Display High resolution 5.7" (145mm diagonal) full colour VGA touch display including QWERTY and numeric key pads plus weighing capacity indication

Operation Mains Operation

Communication Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP and GMP including date and time, Direct Data Transfer, print to USB drive.

Construction Metal base, ABS top housing, stainless steel pan, glass draftshield with flip-top, replaceable in-use cover

Design Features 3-door frameless draftshield with removable panels with optional automatic draftshield door. Modular display design with adjustable viewing angle (attach to base, wall or optional tower). AutoCal™ automatic internal Adjustment. Level assist feature with illuminated level indicator. Selectable environmental and auto-print settings. Integral weigh below hook. Protective in-use cover. Software lock switch

Model	M APP	AUTO DOOR	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
EX124			120 g	0.1 mg		Ø 90 mm	100 g, E2	83021331
EX124/AD		•	120 g	0.1 mg		Ø 90 mm	100 g, E2	30061976
EX224			220 g	0.1 mg		Ø 90 mm	200 g, E2	83021332
EX224/AD		•	220 g	0.1 mg		Ø 90 mm	200 g, E2	30061977
EX224M	•		220 g	0.1 mg	1 mg	Ø 90 mm	200 g, E2	83021333
EX224M/AD	•	•	220 g	0.1 mg	1 mg	Ø 90 mm	200 g, E2	30061995
EX324			320 g	0.1 mg		Ø 90 mm	300 g, E2	83021335
EX324/AD		•	320 g	0.1 mg		Ø 90 mm	300 g, E2	30061978
EX324M	•		320 g	0.1 mg	1 mg	Ø 90 mm	300 g, E2	83021336
EX324M/AD	•	•	320 g	0.1 mg	1 mg	Ø 90 mm	300 g, E2	30061996

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Adventurer® Analytical

Ready for your lab, wherever that may be

- **Fast stabilization and reliable operation for accurate, repeatable results**
- **Wide viewing angle colour touchscreen and dual USB ports with GLP/GMP tracking for better monitoring and reporting of data**
- **The two piece, top-mounted draftshield doors reduce the space needed in the rear of the balance when open**

Application Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold

Display 4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation Mains operation

Communication RS232, USB Host, USB Device (included). GLP/GMP compliant data output with real-time clock

Construction Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, full housing in-use cover

Design Features Selectable environmental filters, auto tare, user selectable span Adjustment points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
AX124		•	120g	0.1 mg		Ø 90 mm	100g, E2	30122610
AX124M	•	•	120g	0.1 mg	1 mg	Ø 90 mm	100g, E2	30100620
AX124/E			120g	0.1 mg		Ø 90 mm	100g, E2	30122657
AX224		•	220g	0.1 mg		Ø 90 mm	200g, E2	30122611
AX224M	•	•	220g	0.1 mg	1 mg	Ø 90 mm	200g, E2	30100621
AX224/E			220g	0.1 mg		Ø 90 mm	200g, E2	30122612
AX324		•	320g	0.1 mg		Ø 90 mm	200g+100g, E2	30122613
AX324M	•	•	320g	0.1 mg	1 mg	Ø 90 mm	200g+100g, E2	30100622

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Pioneer™ Analytical

The Economical Choice of Balance for Routine Weighing Application

- **Easy-to-clean draftshield protects samples from contamination**
- **Backlit LCD makes viewing of results easier—even in low light conditions**
- **Selectable environmental settings minimize external influences & ensure accuracy**

Application Weighing, Parts Counting, Percent Weighing, Animal/Dynamic Weighing, Density Determination

Operation AC adapter (included)

Construction Metal base, ABS top housing, stainless steel pan, glass draftshield with sliding top door, up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, in-use cover

Display Backlit LCD

Communication RS232 (included)

Design Features Selectable environmental filters, auto-tare, software lockout and reset menu, user selectable communication and printing settings, auto standby

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
PA124			120 g	0.1 mg		Ø 90 mm	100g, E2	30208441
PA124C		•	120 g	0.1 mg		Ø 90 mm	100g, E2	30208455
PA124CM/2	•	•	120 g	0.1 mg	1 mg	Ø 90 mm	100g, E2	30306537
PA224			220 g	0.1 mg		Ø 90 mm	200g,E2	30208442
PA224C		•	220 g	0.1 mg		Ø 90 mm	200g, E2	30208456
PA214CM/2	•	•	210 g	0.1 mg	1 mg	Ø 90 mm	200g, E2	30306538

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories for Explorer® Semi-Micro, Explorer®, Adventurer® and Pioneer™ Analytical

Accessories	Explorer	Adventurer	Pioneer	Item N°
Density Kit, Solids	•	•	•	80253384
Sinker, Glass, Liquid, Density Kit	•	•	•	83034024
Static Ionizer, ION-100A	•	•	•	30095929
Auxiliary Display, PAD7	•	•	•	80251396
In-Use-Cover, PA			•	83020221
In-Use-Cover DS AX		•		30111792
In-Use-Cover, Terminal, EX	•			83033633
Dust Cover, Balance with Draft Shield	•	•		30093334
Ethernet Kit, EX EX-HiCap	•			83021082
Cable, USB A to Mini USB, 1.8m Black	•			28120263
Cable, USB, Type A-B		•		83021085
Cable, USB-RS232 Converter	•	•	•	30268619
Cable, RS422, Extension, 3m, EX EX-HiCap	•			83021083
Cable, RS422, Extension, 9m, EX EX-HiCap	•			30078078

Explorer® Precision

Intelligent Performance No Matter How Difficult the Task!

- **A large colour touchscreen gives access to the advanced application modes and icon-driven application software features such as user manager, library, and minimum weight indication.**
- **Explorer features fast stabilization times, optimized linearity and repeatability specifications, enhanced vibration filtering and the choice of traditional Adjustment or AutoCal™ models.**
- **Explorer's sturdy modular design includes metal housing and a display that can be separated from the weighing base and tower or wall-mounted for easy viewing in any workspace.**

Application Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, checkweighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment (except for Explorer High Capacity), gross/net/tare weighing

Display High resolution 5.7" (145mm diagonal) full colour VGA touch display including QWERTY and numeric key pads plus weighing capacity indication

Operation Mains Operation or rechargeable battery (High Capacity models only)

Communication Easy access communication ports (2xUSB, RS232) plus 4th communication port slot (Ethernet or 2nd RS232). GLP and GMP including date and time, Direct Data Transfer, print to USB drive

Construction Modular design, metal base, ABS top housing, stainless steel pan, glass draft-shield with top mounted side doors and flip/sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, four touchless sensors, full housing in-use cover

Design Features Selectable environmental filters, auto tare, user selectable span Adjustment points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, up to 14 operating language

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N° EU	Item N° UK
EX223		•	220 g	1 mg		Ø 130mm	200 g, F1	83021341	
EX223/E			220 g	1 mg		Ø 130mm	200 g, F1	30061979	
EX423		•	420 g	1 mg		Ø 130mm	400 g, F1	83021342	
EX423/E			420 g	1 mg		Ø 130mm	400 g, F1	30061980	
EX423M	•	•	420 g	1 mg	0.01 g	Ø 130mm	400 g, F1	83021343	
EX623		•	620 g	1 mg		Ø 130mm	500 g, F1	83021348	
EX1103		•	1100 g	1 mg		Ø 130mm	1000 g, F1	83021350	
EX1103M	•	•	1100 g	1 mg	0.01 g	Ø 130mm	1000 g, F1	83021351	
EX2202		•	2200 g	0.01 g		190 x 200 mm	2000 g, F1	83021356	
EX2202/E			2200 g	0.01 g		190 x 200 mm	2000 g, F1	30061981	
EX4202		•	4200 g	0.01 g		190 x 200 mm	4000 g, F1	83021357	
EX4202/E			4200 g	0.01 g		190 x 200 mm	4000 g, F1	30061982	
EX4202M	•	•	4200 g	0.01 g	0.1 g	190 x 200 mm	4000 g, F1	83021358	
EX6202		•	6200 g	0.01 g		190 x 200 mm	5000 g, F1	83021360	
EX6202/E			6200 g	0.01 g		190 x 200 mm	5000 g, F1	30061983	
EX10202		•	10200 g	0.01 g		190 x 200 mm	10000 g, F1	83021362	
EX10202M	•	•	10200 g	0.01 g	0.1 g	190 x 200 mm	10000 g, F1	83021363	
EX6201		•	6200 g	0.1 g		190 x 200 mm	5000 g, F1	83021361	
EX6201/E			6200 g	0.1 g		190 x 200 mm	5000 g, F1	30061984	
EX10201		•	10200 g	0.1 g		190 x 200 mm	10000 g, F1	83021365	
EX10201M	•	•	10200 g	0.1 g	0.1 g	190 x 200 mm	10000 g, F1	83021366	
EX12001		•	12000 g	0.1 g		377 mm x 311 mm	10kg, F1	30078072	30078075
EX12001M	•	•	12000 g	0.1 g	1 g	377 mm x 311 mm	10kg, F1	30057067	30100518
EX24001		•	24000 g	0.1 g		377 mm x 311 mm	20kg, F1	30078073	30078076
EX24001M	•	•	24000 g	0.1 g	1 g	377 mm x 311 mm	20kg, F1	30057068	30100519
EX35001		•	35000 g	0.1 g		377 mm x 311 mm	10+20kg, F1	30078074	30078077
EX35001M	•	•	35000 g	0.1 g	1 g	377 mm x 311 mm	10+20kg, F1	30057069	30100520

High Capacity

Adventurer® Precision

Ready for your lab, wherever that may be

- **Fast stabilization and reliable operation for accurate, repeatable results**
- **Wide viewing angle colour touchscreen and dual USB ports with GLP/GMP tracking for better monitoring and reporting of data**
- **The two piece, top-mounted draftshield doors reduce the space needed in the rear of the balance when open**

Application Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold

Display 4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation Mains operation

Communication RS232, USB Host, USB Device (included). GLP/GMP compliant data output with real-time clock

Construction Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, full housing in-use cover

Design Features Selectable environmental filters, auto tare, user selectable span Adjustment points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
AX223		•	220g	1mg		Ø 130 mm	200g, F1	30127960
AX223M	•	•	220g	1mg	0,01g	Ø 130 mm	200g, F1	30100623
AX223/E			220g	1mg		Ø 130 mm	200g, F1	30127961
AX423		•	420g	1mg		Ø 130 mm	200g+200g, F1	30127962
AX423M	•	•	420g	1mg	0,01g	Ø 130 mm	200g+200g, F1	30100624
AX423/E			420g	1mg		Ø 130 mm	200g+200g, F1	30127963
AX523		•	520g	1mg		Ø 130 mm	500g, F1	30122614
AX523M	•	•	520g	1mg	0,01g	Ø 130 mm	500g, F1	30100625
AX523/E			520g	1mg		Ø 130 mm	500g, F1	30122615
AX422		•	420g	0,01g		175mm x 195mm	200g+200g, F1	30206079
AX422/E			420g	0,01g		175mm x 195mm	200g+200g, F1	30206080
AX822		•	820g	0,01g		175mm x 195mm	500g+100g, F1	30206081
AX822/E			820g	0,01g		175mm x 195mm	500g+100g, F1	30206082
AX1502		•	1520g	0,01g		175mm x 195mm	1000g+500g, F1	30127966
AX1502M	•	•	1520g	0,01g	0,1g	175mm x 195mm	1000g+500g, F1	30100626
AX1502/E			1520g	0,01g		175mm x 195mm	1000g+500g, F1	30127967
AX2202		•	2200g	0,01g		175mm x 195mm	2000g, F1	30127968
AX2202M	•	•	2200g	0,01g	0,1g	175mm x 195mm	2000g, F1	30100627
AX2202/E			2200g	0,01g		175mm x 195mm	2000g, F1	30127969
AX4202		•	4200g	0,01g		175mm x 195mm	2000g+2000g, F1	30122616
AX4202M	•	•	4200g	0,01g	0,1g	175mm x 195mm	2000g+2000g, F1	30100628
AX4202/E			4200g	0,01g		175mm x 195mm	2000g+2000g, F1	30122617
AX5202		•	5200g	0,01g		175mm x 195mm	5000g, F1	30122618
AX5202M	•	•	5200g	0,01g	0,1g	175mm x 195mm	5000g, F1	30100629
AX2201		•	2200g	0,1g		175mm x 195mm	2000g, F1	30206083
AX2201/E			2200g	0,1g		175mm x 195mm	2000g, F1	30206084
AX4201		•	4200g	0,1g		175mm x 195mm	2000g+2000g, F1	30127970
AX4201/E			4200g	0,1g		175mm x 195mm	2000g+2000g, F1	30127971
AX8201		•	8200g	0,1g		175mm x 195mm	5000g+1000g, F1	30122619
AX8201M	•	•	8200g	0,1g	1g	175mm x 195mm	5000g+1000g, F1	30122651
AX8201/E			8200g	0,1g		175mm x 195mm	5000g+1000g, F1	30122620

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Pioneer™ Precision

The Economical Choice of Balance for Routine Weighing Applications

- **Easy-to-clean draftshield protects samples from contamination**
- **Backlit LCD makes viewing of results easier—even in low light conditions**
- **Selectable environmental settings minimize external influences & ensure accuracy**

Application	Weighing, Parts Counting, Percent Weighing, Density Determination, Dynamic/Animal Weighing
Operation	AC adapter (included)
Construction	Metal base, ABS top housing, stainless steel pan, glass draftshield with sliding top door (1mg models only), up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, in-use cover
Display	Backlit LCD
Communication	RS232 (included)
Design Features	Selectable environmental filters, auto-tare, software lockout and reset menu, user selectable communication and printing settings, auto standby

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
PA223			220g	1 mg		Ø 120 mm	200g, E2	30341097
PA223C		•	220g	1 mg		Ø 120 mm	200g, E2	30341099
PA223CM/2	•	•	220g	1 mg	10 mg	Ø 120 mm	200g, E2	30341101
PA423			420g	1 mg		Ø 120 mm	400g, E2	30341098
PA423C		•	420g	1 mg		Ø 120 mm	400g, E2	30341100
PA423CM/2	•	•	420g	1 mg	10 mg	Ø 120 mm	400g, E2	30341102
PA2202			2200 g	0.01 g		Ø 180 mm	2000g, F2	30208447
PA2202C		•	2200 g	0.01 g		Ø 180 mm	2000g, F2	30208461
PA2202CM/2	•	•	2200 g	0.01 g	0.1g	Ø 180 mm	2000g, F2	30306543
PA4202			4200 g	0.01 g		Ø 180 mm	4000g, F2	30208449
PA4202C		•	4200 g	0.01 g		Ø 180 mm	4000g, F2	30208463
PA4102CM/2	•	•	4100 g	0.01 g	0.1g	Ø 180 mm	4000g, F2	30306545
PA4201			4200 g	0.1 g		Ø 180 mm	4000g, F2	30208453
PA4201C		•	4200 g	0.1 g		Ø 180 mm	4000g, F2	30208465

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories for Explorer®, Explorer®High Capacity, Adventurer® and Pioneer™ Precision

Accessories	Explorer	EX HC	Adventurer	Pionner	Item N°
Density Kit, Solids	•		•	•	80253384
Sinker, Glass, Liquid, Density Kit	•		•		83034024
Auxiliary Display, PAD7	•	•	•	•	80251396
In-Use-Cover, PA				•	83020221
In-Use-Cover DS AX (1mg models)			•		30111792
In-Use-Cover wo DS AX (0,01 and 0,1g models)			•		30111777
In-Use-Cover, Terminal, EX	•	•			83033633
Dust Cover, Balance with Draft Shield	•	•			30093334
Ethernet Kit, EX EX-HiCap	•				83021082
Draft Shield Kit, EX (0,01 and 0,1g models)	•				83021084
Column Kit, EX-HiCap		•			30078082
Rechargeable Battery, EX-HiCap R71		•			30041295
Wheel Kit, Set(4), EX-HiCap		•			30041470
Column Kit, EX	•				83021102
Cable, USB A to Mini USB, 1.8m Black	•	•			28120263
Cable, USB, Type A-B			•		83021085
Cable, USB-RS232 Converter	•	•	•	•	30268619
Cable, RS422, Extension, 3m, EX EX-HiCap	•	•			83021083
Cable, RS422, Extension, 9m, EX EX-HiCap	•	•			30078078
Printer, Impact, SF40A	•	•	•	•	30064202

TOWER MOUNT

DRAFTSHIELD KIT

Scout® STX

OPTION OPTION OPTION

Setting New Standards in Laboratory & Industrial Weighing – The Next Generation of Scout Portable Balances

- **Navigate quickly & efficiently using the informative colour touchscreen display**
- **Fast weighing speed and high resolution deliver repeatable and reliable results**
- **Superior overload protection & stackable storage drive overall durability**

Application Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing, Totalization, Density Determination, Display Hold, Mole Weighing

Display Full-colour Touchscreen WQVGA Graphic LCD (4.3 in. diagonal), QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation AC Adapter (Included), batteries (not included)

Communication Optional RS232, USB host, USB device, Bluetooth or Ethernet

Construction ABS housing, stainless steel pan, replaceable in-use cover

Design Features Fast stabilization time, up-front level indicator, up to 9 operating languages, save-to-USB function, menu lock switch, stackable design, security slot, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off

Model	Capacity	Readability (d)	Platform	Test Weight*	Item N°
STX123	120g	0,001g	Ø 93 mm	100g, M1	30253058
STX223	220g	0,001g	Ø 93 mm	200g, M1	30253059
STX222	220g	0,01g	Ø 120 mm	200g, M1	30253060
STX422	420g	0,01g	Ø 120 mm	200g, M1	30253061
STX622	620g	0,01g	Ø 120 mm	300g, M1	30253062
STX1202	1200g	0,01g	170mm x 140mm	1000g, M1	30253063
STX2202	2200g	0,01g	170mm x 140mm	2000g, M1	30253064
STX421	420g	0,1g	Ø 120 mm	200g, M1	30253065
STX621	620g	0,1g	170mm x 140mm	300g, M1	30253066
STX2201	2200g	0,1g	170mm x 140mm	2000g, M1	30253067
STX6201	6200g	0,1g	170mm x 140mm	5000g, M1	30253068
STX8200	8200g	1g	170mm x 140mm	8000g, M1	30253069

*test weight included for models up to 620 g capacity

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 69-72

Scout® SKX

The Next Generation of Portable Balance for your Classroom

- **Superior overload protection & practical stackable design for convenient storage**
- **Bright backlit lcd & 4 button operation make the new scout easy to see & use**
- **Multiple connectivity options are available for data logging and communication**
- **Fast weighing speed and high resolution delivers repeatable and reliable results**

Application Weighing, Density Determination, Mole Weighing
Display Backlit LCD: 6-digit 7-segment with white LED backlight
Operation AC Adapter (Included), batteries (not included)
Communication Optional RS232, USB host, USB device, Bluetooth or Ethernet
Construction ABS housing, stainless steel pan, replaceable in-use cover
Design Features Fast stabilization time, menu lock switch, stackable design, security slot, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off

Model	Capacity	Readability (d)	Platform	Test Weight*	Item N° EU	Item N° UK
SKX123	120g	0,001g	Ø 93 mm	100g, M1	30253070	30268769
SKX222	220g	0,01g	Ø 120 mm	200g, M1	30253071	30268770
SKX422	420g	0,01g	Ø 120 mm	200g, M1	30253072	30268771
SKX622	620g	0,01g	Ø 120 mm	300g, M1	30253073	30268772
SKX1202	1200g	0,01g	170mm x 140mm	1000g, M1	30253074	30268773
SKX2202	2200g	0,01g	170mm x 140mm	2000g, M1	30253075	30268774
SKX421	420g	0,1g	Ø 120 mm	200g, M1	30253076	30268775
SKX621	620g	0,1g	170mm x 140mm	300g, M1	30253077	30268776
SKX2201	2200g	0,1g	170mm x 140mm	2000g, M1	30253078	30268777
SKX6201	6200g	0,1g	170mm x 140mm	5000g, M1	30253079	30268778
SKX8200	8200g	1g	170mm x 140mm	8000g, M1	30253080	30268779

*test weight included for models up to 620 g capacity

FOR PRINTERS, CABLES
AND SOFTWARE SEE P. 69-72

Accessories for Scout®

Accessories	Item N°
RS232 Interface, Scout	30268982
USB Host Interface, Scout	30268983
USB Device Interface, Scout	30268984
Bluetooth Interface, Scout	30268985
Ethernet Interface, Scout	30268986
Stacking Kit, x6, Scout	30268987
Stacking Kit, x1, Scout	30268988
In-Use-Cover, Scout	30269022
Auxiliary Display, TAD7-S, Scout	30333960
Density Kit, Scout	30269020
Anti-Theft Device	80850043

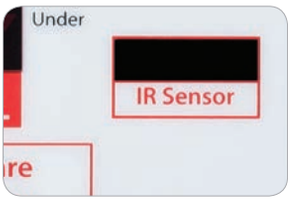
Navigator®

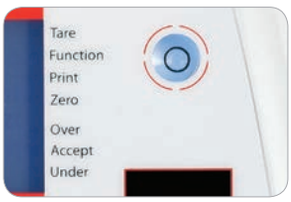
OPTION OPTION OPTION

Multi-purpose, touch-free portable balance

- **Dual multi-functional touch-free sensors for speed, safety and cleanliness**
- **Broad and versatile range: 3 housings, alkaline or rechargeable battery*, “plug and play“ interfaces, approved model**
- **1 second stabilization time for results in a snap**

(*on specific models only)





FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Application	Weighing (14 units), percentage weighing, checkweighing, parts counting, accumulation/totalization and display hold
Display	6 full segment LCD white auto backlight with multiple icons and indicators
Operation	Mains or battery operation with auto shut-off or optional internal rechargeable battery on NVL and NVT
Communication	Easy to install optional USB, RS232 or Ethernet interfaces
Construction	ABS plastic with stainless steel pan
Design Features	Dual Multi-functional touch-free infrared sensors, front level indicator (lit during power up) and non-slip adjustable feet, stability indicator, external menu lock switch, shipping transportation lock, integrated security loop, superior overload protection

Navigator® NV

Model	M APP	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
NV212		210 g	0.01 g		Ø 120 mm	200 g, M1	83997676
NV511		510 g	0.1 g		190 mm x 138 mm	300 g, M1	83997678
NV1101		1100 g	0.1 g		190 mm x 138 mm	500 g, M1	83997680
NV2101		2100 g	0.1 g		190 mm x 138 mm	1000 g, M1	83997682
NV4101		4100 g	0.2 g		190 mm x 138 mm	2000 g, M1	83997684
NV5101		5100 g	0.5 g		190 mm x 138 mm	3000 g, M1	83997686
NV3100M	•	3100 g	1 g	1 g	190 mm x 138 mm	2000 g, M1	83032304

Navigator® XL

Model	Capacity	Readability (d)	Platform	Test Weight	Item N°
NVL511	510 g	0.1 g	203 mm x 194 mm	300 g, M1	83997664
NVL1101	1100 g	0.1 g	203 mm x 194 mm	500 g, M1	83997666
NVL2101	2100 g	0.1 g	203 mm x 194 mm	1000 g, M1	83997668
NVL5101	5100 g	0.5 g	203 mm x 194 mm	3000 g, M1	83997670
NVL10000	10000 g	1 g	203 mm x 194 mm	5000 g, M1	83997672
NVL20000	20000 g	1 g	203 mm x 194 mm	10000 g, M1	83997674

Additional models available, see page 48

Traveler

OPTION OPTION OPTION

Value and practicality for basic weighing

- **Weigh-Thru draftshield for protection and stability**
- **Easily stackable storage**
- **Easy to install USB or RS232 interface options**

Application Weighing (2 units)
Display LCD plus optional auxiliary display
Operation Mains (included), optional battery with programmable Auto Shut-Off
Communication Optional RS232 or USB interface with cable
Construction ABS plastic with stainless steel pan
Design Features Unique Weigh-thru draftshield designed with an easy to remove centre piece that provides protection from rough environments while maintaining weighing speed, designed to stack, shipping lock, Adjustment lock, fixed integral weigh below hook

Model	Capacity	Readability (d)	Platform	Test Weight	Item N° EU	Item N° UK
TA152	150 g	0.01 g	Ø 120 mm	150 g, M1, Included with balance*	72202482	30064681
TA302	300 g	0.01 g	Ø 120 mm	300 g, M1, Included with balance*	72202483	30064685
TA502	500 g	0.01 g	Ø 120 mm	300 g, M1	83997626	30064688
TA301	300 g	0.1 g	Ø 120 mm	300 g, M1, Included with balance*	72202484	30064684
TA501	500 g	0.1 g	Ø 120 mm	300 g, M1	72202485	30064687
TA1501	1500 g	0.1 g	120 mm x 135 mm	1000 g, M1	72202486	30064680
TA3001	3000 g	0.1 g	120 mm x 135 mm	2000 g, M1	72202487	30064683
TA5000	5000 g	1 g	120 mm x 135 mm	3000 g, M1	72202489	30064686

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories for Navigator® and Traveler

Accessories	NV	NVL	TA	Item N°
RS232 Kit, TA, NV, NVL, NVT	•	•	•	83032107
USB Kit, TA, NV, NVL, NVT	•	•	•	83032108
Ethernet Kit, NV, NVL, NVT	•	•		83032109
Auxiliary Display, TAD7			•	80251395
In-Use-Cover, NVL		•		83032222
In-Use-Cover, NV	•			83032223
Rechargeable Battery, NVL NVT		•		83032106
Anti-Theft Device	•	•	•	80850000
Carrying Case, NVL		•		83032225
Carrying Case, NV	•			83032226

CS Series

Dependable results in a portable balance

- AC adapter included
- Large stainless steel pan included
- Auto Shut-off

Model	Capacity	Readability (d)	Platform	TestWeight	Item N° EU	Item N° UK
CS200, 1 order = 1 pack of 6 pcs	200 g	0.1 g	145 mm x 133 mm	200 g, M1	83997617	30064706
CS600, 1 order = 1 pack of 6 pcs	600 g	0.1 g	145mm x 133mm	300g, M1	30422851	30422853
CS2000, 1 order = 1 pack of 6 pcs	2000 g	1 g	145 mm x 133 mm	1 kg, M1	83997618	30064707
CS5000, 1 order = 1 pack of 6 pcs	5000 g	1 g	145 mm x 133 mm	2 kg, M1	83997619	30064708

CSE Series

The perfect portable balance when cost matters and dependable results are a must!

- Large Weighing Platform
- Compact design
- Superior RF protection

Model	Capacity	Readability (d)	Platform	TestWeight	Item N°
CS200E, 1 order = 1 pack of 6 pcs	200 g	0.1 g	145 mm x 133 mm	200 g, M1	80500630
CS600E, 1 order = 1 pack of 6 pcs	600 g	0.1 g	145mm x 133mm	300g, M1	30422852
CS2000E, 1 order = 1 pack of 6 pcs	2000 g	1 g	145 mm x 133 mm	1 kg,M1	80500631
CS500E, 1 order = 1 pack of 6 pcs	5000 g	1 g	145 mm x 133 mm	2 kg,M1	80500630

CL Series

Reliable portable scales when prices matters

- Storage made easy with a stackable design
- Integrated load cell lock
- Battery operation with auto shut-off (optional main adaptor)

Model	Capacity	Readability (d)	Platform	Item N°
CL201, 1 order = 1 pack of 6 pcs	200 g	0.1 g	Ø 120 mm	80010610
CL501, 1 order = 1 pack of 6 pcs	500 g	0.1 g	Ø 120 mm	80500640
CL2000, 1 order = 1 pack of 6 pcs	2000 g	1 g	Ø 120 mm	80010611
CL5000, 1 order = 1 pack of 6 pcs	5000 g	1 g	Ø 120 mm	80010612

Accessories for CS, CSE and CL Series

Accessories	CS	CSE	CL	Item N°
Carrying Case, CS	•	•	•	80010624
Bowl, 1050ml, CS	•	•	•	80850075
Pan Cover, SST, CS	•			80850076
Pan Cover, SST, CL			•	80010623
Power Adapter (Universal plug set 46001779 required)		•	•	46001724
Universal plug set		•	•	46001779

YA Gold Series

Reliable pocked-sized portable scale

- Unique hinged cover design
- High contrast backlit LCD
- Energy saving auto shut-off

Model	Capacity	Readability (d)	Platform	Item N°
YA102	100 g	0.01 g	50 mm x 70 mm	80251910
YA302	300 g	0.05 g	50 mm x 70 mm	80251911
YA501	500 g	0.1 g	50 mm x 70 mm	80251912

Emerald Series

Convenient, compact weighing capability in the palm of your hand

- Blue backlit luminescent display
- Protective snap-on cover

Model	Capacity	Readability (d)	Platform	Test Weight	Item N°
JE120, 1 order = 1 pack of 6 pcs	120 g	0.1 g	83 mm x 76 mm	100 g, M1	71148072
JE250, 1 order = 1 pack of 6 pcs	250 g	0.1 g	83 mm x 76 mm	200 g, M1	71148073
JE500, 1 order = 1 pack of 6 pcs	500 g	0.1 g	83 mm x 76 mm	200 g, + 100 g, M1	71148074

MC2000

Taking Moisture Determination in Agricultural Applications to the Next Level

- Whole grain moisture analysis made simple in only 3 easy steps
- With results within 5 seconds the MC2000 saves time in routine moisture analysis
- With 50 procedures in the library (10 pre-programmed), MC2000 is designed to measure moisture content in a wide variety of grains.

Application Moisture determination from 3%-45%
Display Backlit LCD
Operation 4 AA batteries (included)
Design Features Compact design, Automatic Temperature Compensation, Adjustment, Category Setup, Auto shut-off

Model	Capacity	Readability (d)	Item N°
MC2000	220 ml	0,1%	30332112

MB120

Moisture Analysis Made Simple and Powerful

- **MB120's Temperature Guide analyzes a sample and determines the optimal drying temperature. Store up to 100 drying methods for easy recall and up to 1000 total results for statistical analysis.**
- **Precisely controlled halogen heating dries samples uniformly, producing repeatable results of 0.01% readability. Four drying profiles & seven shut-off criteria help to perform customized sample tests.**
- **The MB120 features a removable pan handler and sample chamber for easy cleaning. Operating the MB120 is intuitive – simply follow the guided instructions on the touchscreen display.**

Model	Capacity	Readability (d)	Platform	Test Weight	Item N° EU	Item N° UK
MB120	120 g	1 mg/0.01%	Ø 90 mm	50 g	30241169	30303304

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

MB90

Combining Speed and Precision in One Moisture Analyzer – Test More Samples in Less Time

- **The MB90's precisely controlled halogen heating dries samples quickly, and ensures uniform heating to yield fast, precise and repeatable results of 0.01% readability.**
- **Designed with effortless maintenance in mind, the MB90 features a removable pan handler and heating chamber components that make cleaning quick and easy – no tools needed.**
- **Icon-based menu navigation on the easy-to-read touchscreen display makes operating the MB90 intuitive. Perform routine sample testing in three easy steps – no training required.**

Model	Capacity	Readability (d)	Platform	Test Weight	Item N° EU	Item N° UK
MB90	90 g	1 mg/0.01%	Ø 90 mm	50 g	30241168	30303303

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Application	Percent Moisture Determination, Percent Moisture Regain Determination, Percent Solid Determination, Weighing
Display	4.3" TFT colour touchscreen display
Operation	Power cord (included)
Communication	RS232 with GLP/GMP data output, USB Host and USB Device (included)
Construction	Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover
Design Features MB120	Seven shut-off criteria (manual, timed, autofree %/s, autofree mg/s, A30, A60 and A90), four drying profiles (standard, fast, ramp and step), storage up to 100 methods and 1000 test results for all methods, user guide, 40°C to 230°C heating temperature range (1°C increments), 13 operational languages
Design Features MB90	Three shut-off criteria (manual, timed or auto), two drying profiles (standard and fast), storage up to two methods, user guide, 40°C to 200°C heating temperature range (1°C increments), 13 operational languages

MB25

Fast, easy to use, compact halogen analyser

- **Halogen heating**
- **Ideal for fast routine tasks with readability up to 5 mg/0.05 %**
- **Compact and simple to operate**

Application Moisture determination from 50 °C to 160 °C, 5 °C increments, repeatability 0.05 % (10 g sample)
Display Custom backlit LCD
Operation Mains operation
Communication RS232 Interface
Construction Durable ABS
Design Features Compact design, in-use cover, sample pan holder, halogen heating, manual, automatic or timed duration drying time

Model	Capacity	Readability (d)	Platform	Test Weight	Item N°
MB25	110 g	5 mg	Ø 90 mm	50 g, M1	80252472

MB23

Compact analyser that is easy to use and clean

- **Infrared heating – no glass**
- **Ideal for routine tasks with readability up to 10 mg/0.1 %**
- **Compact and simple to operate**

Application Moisture determination from 50 °C to 160 °C, 5 °C increments, repeatability 0.2 % (10 g sample)
Display Custom backlit LCD
Operation Mains operation
Communication RS232 Interface
Construction Durable ABS
Design Features Compact design, in-use cover, sample pan holder, infrared heating, manual, automatic or timed duration drying time

Model	Capacity	Readability (d)	Platform	Test Weight	Item N°
MB23	110 g	10 mg	Ø 90 mm	50 g, M1	80252470

Accessories for MB120. MB90, MB25, MB23

Accessories	MB23	MB25	MB90	MB120	Item N°
Temp. Calibration Kit, MB Series	•	•	•	•	11113857
Holder, Pan, MB Series	•	•			80252476
Holder, Pan MB90 MB120			•	•	30246947
Pan, Aluminum, Set(80), MB Series	•	•	•	•	80850086
Filter, Glass Fiber, Set(200)	•	•	•	•	80850087
Cage, Sample, MB Series	•	•	•	•	80252477
Pan, Reusable, Set(3), 14mm, MB Series	•	•	•	•	80252479
Pan, Reusable, Set(3), 7mm, MB Series	•	•	•	•	80252478
Scoop, Accessory, MB90 MB120			•	•	30284477
In-Use-Cover, MB23 MB25	•	•			80252475
In-Use-Cover, Accessory, MB90 MB120			•	•	30284478
Anti-Theft Device	•	•	•	•	80850043
Cable, USB-RS232 Converter	•	•	•	•	30268619

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Cent-O-Gram® 311-00

High precision and remarkable value

- Quick zeroing with zero adjust knob
- Vernier dial convenience on Dial-O-Gram (310 – 00)
- Self-aligning beam design

Model	Capacity	Readability (d)	Platform	Item N°
311-00	311 g	0.01 g	Ø 89 mm	80000010

Triple Beam Pro®

The Triple Beam balance that offers even more

- Easy grip carrying handle
- Included weight set with integrated storage in the balance

Model	Capacity	Readability (d)	Platform	Item N°
TP2611	2610 g	0.1 g	147 mm	80251370

Triple Beam Junior

OHAUS Quality at an Affordable Price

- Notched and tiered beams for easy reading
- Security Features (lockable connections)
- Zero adjust compensator ensures correct zero

Model	Capacity	Readability (d)	Platform	Item N°
TJ2611	2610 g*	0.1 g	Ø 150 mm	80252049
TJ611	610 g	0.1 g	Ø 150 mm	80252052

* with included 3-piece mass set

Triple Beam 700

Rugged enough to deliver accurate results year after year

- Fixed or removable pan (710-00) to fit any application
- Vernier dial convenience on Dial-O-Gram (1650-00)
- Easy to read deep notched and tiered beams, counterbalancing knob for quick zeroing, self-aligning beam design

Model	Capacity	Readability (d)	Platform	Item N°
710-00	610 g*	0.1 g	Ø 152 mm	80000011
750-S0	610 g*	0.1 g	Ø 152 mm	80000012
760-00	610 g*	0.1 g	Ø 152 mm	80000013

* 2610 g capacity with optional 80780108 weight set

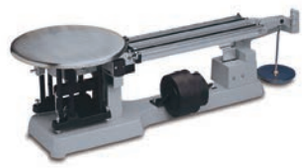
Harvard Junior

Traditional style two-pan design at a great price

- Easy grip carrying handle
- Lock to protect the balance during transport or storage (can be stacked)
- Included 8-piece weight set and bowl that fits over the flat platform

Model	Capacity	Readability (d)	Platform	Item N°
HJ2001	2000 g	0.5 g	Ø 150 mm	80252050

Heavy Duty Solution



The Industry Standard for Precision and High Capacity Weighing

- Oversized stainless steel platform
- Lockable tare for container up to 2270 g
- Covered self-aligning bearings for low maintenance

Model	Capacity	Readability (d)	Platform	Item N°
1119-D0	20 kg	1 g	Ø 279 mm	80000000

Accessories for mechanical balances

Accessories	Item N°
Scoop and Counter Weight, SST	80780015
Scoop, Flat Bottomed, SST, 0.6l	80250400
Scoop and Counter Weight	80780001
Scoop, PP, 0.8l	80780006
Weight Set, Metric, 1119-D0	80780008
Kit, Rod and Clamp	80780011
Scoop and Counter Weight, Polypropylene	80780014
Scoop and Counter Weight, 1.75l	80780016
Dust Cover, Triple Beam	80780017
Weight Set, 2x1kg, 1x500g	80780108

VFS Series Stainless Steel Floor Scales

OPTION

High quality stainless steel platform with structural bracing and multifunctional T51XW indicator

- **Structural channel bracing for durability**
- **Pit mounting possibility**
- **All stainless steel with IP66 multifunctional indicator and IP68 stainless steel load cells**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

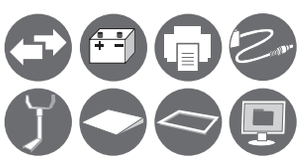
Operation Internal universal power supply or optional internal NiMH rechargeable battery (battery is delivered separately on approved version)

Communication RS232 Interface with GMP, Time-Date, optional RS422/485, AC/DC Relay, 2nd RS232

Construction IP66 stainless steel indicator, bead blasted stainless steel platform; IP67 stainless steel junction box with top acess; IP68 OIML R60 electro-polished stainless steel load cells

Design Features Structural channel bracing and pendulum design feet with removable rubber cap

Model	M APP	Capacity	Readability (d)	(e)	Platform (mm)	Item N°
VFS-CS30051XW		300 kg	50 g		800 x 800 x 90	22018717
VFS-CS30051XWM	•	300 kg		100 g	800 x 800 x 90	22018743
VFS-CS60051XW		600 kg	100 g		800 x 800 x 90	22018718
VFS-CS60051XWM	•	600 kg		200 g	800 x 800 x 90	22018744
VFS-DS30051XW		300 kg	50 g		1000 x 1000 x 90	22018719
VFS-DS30051XWM	•	300 kg		100 g	1000 x 1000 x 90	22018745
VFS-DS60051XW		600 kg	100 g		1000 x 1000 x 90	22018720
VFS-DS60051XWM	•	600 kg		200 g	1000 x 1000 x 90	22018746
VFS-DS150051XW		1500 kg	200 g		1000 x 1000 x 90	22018721
VFS-DS150051XWM	•	1500 kg		500 g	1000 x 1000 x 90	22018747
VFS-E60051XW		600 kg	100 g		1500 x 1250 x 90	22018722
VFS-E60051XWM	•	600 kg		200 g	1500 x 1250 x 90	22018748
VFS-E150051XW		1500 kg	200 g		1500 x 1250 x 90	22018723
VFS-E150051XWM	•	1500 kg		500 g	1500 x 1250 x 90	22018749
VFS-E300051XW		3000 kg	500 g		1500 x 1250 x 90	22018724
VFS-E300051XWM	•	3000 kg		1000 g	1500 x 1250 x 90	22018750
VFS-ES60051XW		600 kg	100 g		1500 x 1500 x 90	22018725
VFS-ES60051XWM	•	600 kg		200 g	1500 x 1500 x 90	22018751
VFS-ES150051XW		1500 kg	200 g		1500 x 1500 x 90	22018726
VFS-ES150051XWM	•	1500 kg		500 g	1500 x 1500 x 90	22018752
VFS-ES300051XW		3000 kg	500 g		1500 x 1500 x 90	22018727
VFS-ES300051XWM	•	3000 kg		1000 g	1500 x 1500 x 90	22018753
VFS-G150051XW		1500 kg	200 g		2000 x 1500 x 90	22018728
VFS-G150051XWM	•	1500 kg		500 g	2000 x 1500 x 90	22018754
VFS-G300051XW		3000 kg	500 g		2000 x 1500 x 90	22018729
VFS-G300051XWM	•	3000 kg		1000 g	2000 x 1500 x 90	22018755



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Accessories	Item N°
Ramp 800 mm for VFS stainless steel	22015473
Ramp 1000 mm for VFS stainless steel	22015474
Ramp 1250 mm for VFS stainless steel	22015475
Ramp 1500 mm for VFS stainless steel	22015476
Pit frame stainless steel VFS-CS	22015493
Pit frame stainless steel VFS-DS	22015494
Pit frame stainless steel for VFS-E	22015495
Pit frame stainless steel VFS-ES	22015496

Accessories	Item N°
Pit frame stainless steel for VFS-G	22015497
Set of footplates S/Steel for VFS	22015581
AC Relay Option Kit	80500720
DC Relay Kit	80500727
Battery (Rechargeable Kit)	80500729
RS422/485 (Interface Kit)	80500731
RS232 (Interface Kit)	80500733

VFP Series Floor Scales

OPTION

High quality painted steel platform with structural bracing and multifunctional T51P indicator

- **Structural channel bracing for durability**
- **Pit mounting possibility**
- **IP68 stainless steel load cells**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

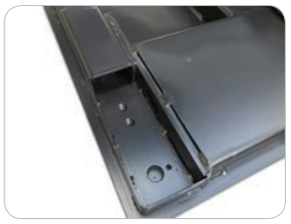
Display LCD display with white LED backlight plus 3 colour checkweigh LED

Operation Internal universal power supply, 6 x C batteries or optional internal NiMH rechargeable battery

Communication RS232 Interface with GMP, Time-Date, optional RS422/485, AC/DC Relay, 2nd RS232

Construction ABS Indicator, black painted steel platform, IP67 stainless steel junction box with top access, IP68 OIML R60 electro-polished stainless steel load cells

Design Features Structural channel bracing and pendulum design feet with removable rubber cap



Model	M APP	Capacity	Readability (d)	(e)	Platform (mm)	Item N°
VFP-CS30051P		300 kg	50 g		800 x 800 x 90	22018704
VFP-CS30051PM	•	300 kg		100 g	800 x 800 x 90	22018730
VFP-CS60051P		600 kg	100 g		800 x 800 x 90	22018705
VFP-CS60051PM	•	600 kg		200 g	800 x 800 x 90	22018731
VFP-DS30051P		300 kg	50 g		1000 x 1000 x 90	22018706
VFP-DS30051PM	•	300 kg		100 g	1000 x 1000 x 90	22018732
VFP-DS60051P		600 kg	100 g		1000 x 1000 x 90	22018707
VFP-DS60051PM	•	600 kg		200 g	1000 x 1000 x 90	22018733
VFP-DS150051P		1500 kg	200 g		1000 x 1000 x 90	22018708
VFP-DS150051PM	•	1500 kg		500 g	1000 x 1000 x 90	22018734
VFP-E60051P		600 kg	100 g		1500 x 1250 x 90	22018709
VFP-E60051PM	•	600 kg		200 g	1500 x 1250 x 90	22018735
VFP-E150051P		1500 kg	200 g		1500 x 1250 x 90	22018710
VFP-E150051PM	•	1500 kg		500 g	1500 x 1250 x 90	22018736
VFP-E300051P		3000 kg	500 g		1500 x 1250 x 90	22018711
VFP-E300051PM	•	3000 kg		1000 g	1500 x 1250 x 90	22018737
VFP-ES60051P		600 kg	100 g		1500 x 1500 x 90	22018712
VFP-ES60051PM	•	600 kg		200 g	1500 x 1500 x 90	22018738
VFP-ES150051P		1500 kg	200 g		1500 x 1500 x 90	22018713
VFP-ES150051PM	•	1500 kg		500 g	1500 x 1500 x 90	22018739
VFP-ES300051P		3000 kg	500 g		1500 x 1500 x 90	22018714
VFP-ES300051PM	•	3000 kg		1000 g	1500 x 1500 x 90	22018740
VFP-G150051P		1500 kg	200 g		2000 x 1500 x 90	22018715
VFP-G150051PM	•	1500 kg		500 g	2000 x 1500 x 90	22018741
VFP-G300051P		3000 kg	500 g		2000 x 1500 x 90	22018716
VFP-G300051PM	•	3000 kg		1000 g	2000 x 1500 x 90	22018742

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
Pit frame painted for VFP-CS	22015392
Pit frame painted for VFP-DS	22015393
Pit frame painted for VFP-E	22015394
Pit frame painted for VFP-ES	22015396
Pit frame painted for VFP-G	22015397
Ramp 800 mm VFP painted steel	22015464
Ramp 1000 mm VFP painted steel	22015465
Ramp 1250 mm VFP painted steel	22015466

Accessories	Item N°
Ramp 1500 mm VFP painted steel	22015467
Set of footplates painted steel VFP	22015499
AC Relay Option Kit	80500720
DC Relay Kit	80500727
Battery (Rechargeable Kit)	80500729
RS422/485 (Interface Kit)	80500731
RS232 (Interface Kit)	80500733

VE Series Stainless Steel Floor Scales

Economical stainless steel platform with T32X indicator

- **Affordable without compromising on quality**
- **Easy to use and clean with stainless steel IP65 indicator and IP67 load cells**
- **Internal rechargeable battery**

Application Weighing (5 units), basic parts counting

Display LCD with white LED backlight

Operation Internal universal power supply or internal rechargeable battery

Communication RS232 Interface

Construction IP65 stainless steel indicator, stainless steel platform, fixed top plate 5mm thick, 4 x H8C IP67 OIML R60 alloy steel load cells, IP65 Stainless steel junction box with side access

Design Features Indicator with hinged front cover for easy servicing

Model	M APP	Capacity	Readability (d)	(e)	Platform (mm)	Item N° EU	Item N° UK
VE1500S32XW		1500 kg	500 g		1000 x 1000 x 90	83997642	80253275
VE1500S32XW-M	•	1500 kg		500 g	1000 x 1000 x 90	80253282	80253282
VE1500R32XW		1500 kg	500 g		1250 x 1250 x 90	83997643	80253276
VE1500R32XW-M	•	1500 kg		500 g	1250 x 1250 x 90	80253283	80253283
VE3000R32XW		3000 kg	1000 g		1250 x 1250 x 90	83997644	80253277
VE3000R32XW-M	•	3000 kg		1000 g	1250 x 1250 x 90	80253284	80253284
VE1500L32XW		1500 kg	500 g		1500 x 1500 x 90	83997645	80253278
VE1500L32XW-M	•	1500 kg		500 g	1500 x 1500 x 90	80253285	80253285
VE3000L32XW		3000 kg	1000 g		1500 x 1500 x 90	83997646	80253279
VE3000L32XW-M	•	3000 kg		1000 g	1500 x 1500 x 90	80253286	80253286

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
Ramp 1000 mm for VE Stainless steel	72198341
Ramp 1250 mm for VE Stainless steel	72198342
Ramp 1500 mm for VE Stainless steel	72198343
Set of Footplates	72198345
PC Cable 9 pin	80500552

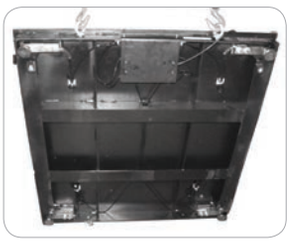
Columns available for all floor and pallet scales

Accessories	Item N°
Column CS Floor Scale, 974mm	30047153
Column SST Floor Scale	30047154

VE Series Floor Scales

Economical painted steel platform with T31P indicator

- Affordable without compromising on quality
- IP67 alloy steel load cells
- Internal rechargeable battery



Model	M APP	Capacity	Readability (d)	(e)	Platform (mm)	Item N°
VE1500S31P		1500 kg	500 g		1000 x 1000 x 90	72204367
VE1500S31P-M	•	1500 kg		500 g	1000 x 1000 x 90	80251865
VE1500R31P		1500 kg	500 g		1250 x 1250 x 90	72204368
VE1500R31P-M	•	1500 kg		500 g	1250 x 1250 x 90	80251866
VE3000R31P		3000 kg	1000 g		1250 x 1250 x 90	72204369
VE3000R31P-M	•	3000 kg		1000 g	1250 x 1250 x 90	80251867
VE1500L31P		1500 kg	500 g		1500 x 1500 x 90	72204370
VE1500L31P-M	•	1500 kg		500 g	1500 x 1500 x 90	80251868
VE3000L31P		3000 kg	1000 g		1500 x 1500 x 90	72204371
VE3000L31P-M	•	3000 kg		1000 g	1500 x 1500 x 90	80251869

Accessories	Item N°
Ramp 1000 mm for VE painted steel	72198338
Ramp 1250 mm for VE painted steel	72198339
Ramp 1500 mm for VE painted steel	72198340

Accessories	Item N°
Set 2 footplates VE painted steel	72198344
Wall Mount Kit, painted steel T31P	80251747
In-Use-Cover, T24P T31P	30101017

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

DF Series Floor Scales

Versatile, low cost floor and pit platform with T32M indicator

- Indicator with intuitive usage and sturdy metal housing
- Accumulation and printing capability via RS232
- IP67 alloy steel load cells

Application Weighing (5 units), basic parts counting, weight accumulation

Display Backlit LCD

Operation AC Adaptor (included)

Communication RS232 interface

Construction Metal indicator, black painted steel platform, raised embossed treads, fixed top plate 5mm thick, 4 x H8C IP67 OIML R60 alloy steel load cells, IP65 stainless steel junction box

Design Features Indicator with ABS front panel, painted carbon steel rear housing and mounting bracket

Model	Capacity	Readability (d)	Platform (mm)	Item N°
DF32M1500BS	1500 kg	500 g	800 x 800 x 110	83997598
DF32M1500BR	1500 kg	500 g	1000 x 1000 x 110	83997597
DF32M1500BL	1500 kg	500 g	1200 x 1200 x 110	83997596
DF32M3000BL	3000 kg	1000 g	1200 x 1200 x 110	83997595
DF32M1500BLX	1500 kg	500 g	1200 x 1500 x 110	83997585
DF32M3000BLX	3000 kg	1000 g	1200 x 1500 x 110	83997584
DF32M1500BX	1500 kg	500 g	1500 x 1500 x 110	83997594
DF32M3000BX	3000 kg	1000 g	1500 x 1500 x 110	83997593

Accessories	Item N°
Ramp 800 mm DF	80252722
Ramp 1000 mm DF	80252723
Ramp 1200 mm DF	80252724
Ramp 1500 mm DF	80252725
Pit frame, 800 mm for DF	83033708

Accessories	Item N°
Pit frame, 1000 mm for DF	83033709
Pit frame, 1200 mm for DF	83033710
Pit frame, 1500 mm for DF	83033711
Pit frame, 1200 mm x 1500 mm for DF	83033714
Set of 2 footplates for DF	72225239

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

VFSP Series Stainless Steel Pallet Scales

OPTION

High quality stainless steel pallet scale with multifunctional T51XW

- Rugged pallet U-frame design
- All stainless steel with IP66 multifunctional indicator and IP68 stainless steel load cells
- Multiple interface and relay options

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
VFSP-60051XW		600 kg	100 g		1256 mm x 840 mm	22018760
VFSP-60051XWM	•	600 kg		200 g	1256 mm x 840 mm	22018762
VFSP-150051XW		1500 kg	200 g		1256 mm x 840 mm	22018761
VFSP-150051XWM	•	1500 kg		500 g	1256 mm x 840 mm	22018763

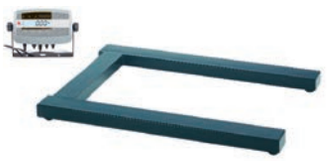
FOR PRINTERS, CABLES AND SOFTWARE
SEE P. 65-67

VFPP Series Pallet Scales

OPTION

High quality painted steel pallet scale with T51P indicator

- Rugged pallet U-frame design
- IP68 stainless steel load cells
- Multiple interface and relay options



Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
VFPP-60051P		600 kg	100 g		1256 mm x 840 mm	22018756
VFPP-60051PM	•	600 kg		200 g	1256 mm x 840 mm	22018758
VFPP-150051P		1500 kg	200 g		1256 mm x 840 mm	22018757
VFPP-150051PM	•	1500 kg		500 g	1256 mm x 840 mm	22018759

FOR PRINTERS, CABLES AND SOFTWARE
SEE P. 65-67

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

Operation VFSP Internal universal power supply, 6 x C batteries or optional internal NiMH rechargeable battery

Operation VFPP Internal universal power supply or optional internal NiMH rechargeable battery (battery is delivered separately on approved version)

Communication RS232 Interface with GMP, Time-Date, optional RS422/485, AC/DC Relay, 2nd RS232

Construction VFSP ABS Indicator, black painted steel U-frame, IP67 stainless steel junction box, IP68 OIML R60 Stainless steel load cells

Construction VFPP IP66 stainless steel indicator, stainless steel U-frame; IP67 stainless steel junction box, IP68 OIML R60 Stainless steel load cells

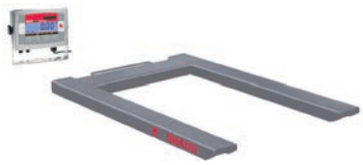
Design Features Pendulum design feet with removable rubber cap

Accessories	Item N°
Wall Mount Kit	80500720
AC Relay Option Kit	80500727
DC Relay Kit	80500729
Battery (Rechargeable Kit)	80500731
RS422/485 (Interface Kit)	80500733
RS232 (Interface Kit)	80500735
Mounting kit wall	72200227

VE Series Stainless Steel Pallet Scales

Economical stainless steel pallet scale with T32XW indicator

- **Affordable without compromising on quality**
- **Easy to use and clean with stainless steel IP65 indicator and IP67 load cells**
- **Internal rechargeable battery**



Application Weighing (5 units), basic parts counting
Display LCD with white LED backlight
Operation Internal universal power supply or internal rechargeable battery
Communication RS232 Interface
Construction IP65 Stainless steel indicator, stainless steel U-frame, 4 x IP67 OIML R60 alloy steel load cells, IP65 stainless steel junction box
Design Features Indicator with hinged front cover for friendly servicing. U-frame with handle and front wheels

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N° EU	Item N° UK
VE1500P32XW		1500 kg	500 g		1260 mm x 840 mm	83997647	80253281
VE1500P32XW-M	•	1500 kg		500 g	1260 mm x 840 mm	80253292	80253292

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

VE Series Pallet Scales

Economical painted steel pallet scale with T31P indicator

- **Affordable without compromising on quality**
- **IP67 alloy steel load cells**
- **Internal rechargeable battery**

Application Weighing (5 units), basic parts counting
Display LCD with white LED backlight
Operation AC adaptor (supplied) or internal rechargeable battery
Communication RS232 Interface
Construction ABS Indicator, painted carbon steel U-frame, 4 x H8C IP67 OIML R60 alloy steel load cells, IP65 stainless steel junction box
Design Features Indicator with reversible rear cover for cable exit above or below the indicator housing, integrated key-hole mounts on back cover. U-frame with handle and front wheels

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
VE1500P31P		1500 kg	500 g		1260 mm x 840 mm	72204372
VE1500P31P-M	•	1500 kg		500 g	1260 mm x 840 mm	80251859

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
Wall Mount Kit, painted steel T31P	80251747
In-Use-Cover, T24P T31P	30101017

Defender™ 5000 Stainless Steel

OPTION

Multi-functional, high quality modular scale for washdown environments

- **Full-stainless steel IP66 scale**
- **Multiple interface and relay options**
- **High resolution, user configurable up to 30 000 d**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

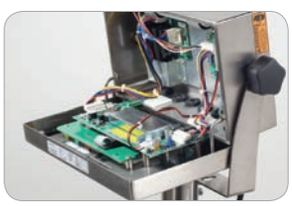
Operation Internal universal power supply or optional internal NiMH rechargeable battery

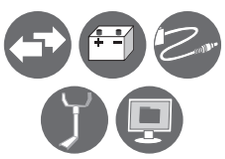
Communication RS232 Interface with GMP, Time-Date; optional RS422/485, AC/DC Relay, 2nd RS232

Construction IP66 stainless steel Indicator, 304 grade stainless steel platform pan with stainless steel form-and weld frame, IP67 stainless steel load cell, stainless steel column and wall bracket included

Design Features Indicator with hinged front cover for easy servicing, platform has 5 or 6 point overload stops for 150 % safe overload protection

Model	M APP	RE-CHARGE	Capacity	Readability (d)	(e)	Platform	Item N° EU	Item N° UK
D51XW15WR3			15 kg	1 g		305 mm x 305 mm	83997621	80251811
D51XW15WR3-M	•		15 kg		5 g	305 mm x 305 mm	80251816	80251816
D51XW15WR3-MB	•	•	15 kg		5 g	305 mm x 305 mm	80500755	80500755
D51XW30WR3			30 kg	2 g		305 mm x 305 mm	83997622	80251812
D51XW30WR3-M	•		30 kg		10 g	305 mm x 305 mm	80251817	80251817
D51XW30WR3-MB	•	•	30 kg		10 g	305 mm x 305 mm	80500756	80500756
D51XW60WL4			60 kg	5 g		457 mm x 457 mm	83997623	80251813
D51XW60WL4-M	•		60 kg		20 g	457 mm x 457 mm	80251818	80251818
D51XW60WL4-MB	•	•	60 kg		20 g	457 mm x 457 mm	80500757	80500757
D51XW150WL4			150 kg	10 g		457 mm x 457 mm	83997624	80251814
D51XW150WL4-M	•		150 kg		50 g	457 mm x 457 mm	80251819	80251819
D51XW150WL4-MB	•	•	150 kg		50 g	457 mm x 457 mm	80500758	80500758
D51XW300WX4			300 kg	20 g		610 mm x 610 mm	83997625	80251815
D51XW300WX4-M	•		300 kg		100 g	610 mm x 610 mm	80251820	80251820
D51XW300WX4-MB	•	•	300 kg		100 g	610 mm x 610 mm	80500759	80500759





FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
PC Cable 9 pin	80500552
AC Relay Option Kit	80500720
DC Relay Kit	80500727
Battery (Rechargeable Kit)	80500729
RS422/485 (Interface Kit)	80500731
RS232 (Interface Kit)	80500733

Defender™ 5000 Standard

RS 232 BAT RE-CHARGE
OPTION

Multi-functional, high quality modular scale

- **Advanced applications including dynamic and checkweighing**
- **Multiple interface and relay options**
- **High resolution, user configurable up to 30 000 d**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

Operation Internal universal power supply, 6 x C batteries or optional internal NiMH rechargeable battery

Communication RS232 Interface with GMP, Time-Date, optional RS422/485, AC/DC Relay, 2nd RS232

Construction ABS Indicator, 304 grade stainless steel platform pan with black polyurethane painted steel form-and weld frame, IP67 aluminium load cell, painted steel column and wall bracket included

Design Features Platform with 5 or 6 point overload stops for 150 % safe overload protection

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
D51P15QR1		15 kg	1 g		305 mm x 305 mm	72200102
D51P15QR1-M	•	15 kg		5 g	305 mm x 305 mm	80500828
D51P30QR1		30 kg	2 g		305 mm x 305 mm	72200103
D51P30QR1-M	•	30 kg		10 g	305 mm x 305 mm	80500829
D51P15HR1		15 kg	1 g		355 mm x 305 mm	72200095
D51P15HR1-M	•	15 kg		5 g	355 mm x 305 mm	80251826
D51P30HR1		30 kg	2 g		355 mm x 305 mm	72200096
D51P30HR1-M	•	30 kg		10 g	355 mm x 305 mm	80251827
D51P60HR1		60 kg	5 g		355 mm x 305 mm	72200097
D51P60HR1-M	•	60 kg		20 g	355 mm x 305 mm	80251828
D51P60QL2		60 kg	5 g		457 mm x 457 mm	72200104
D51P60QL2-M	•	60 kg		20 g	457 mm x 457 mm	80500830
D51P150QL2		150 kg	10 g		457 mm x 457 mm	72200105
D51P150QL2-M	•	150 kg		50 g	457 mm x 457 mm	80500831
D51P60HL2		60 kg	5 g		500 mm x 400 mm	72200098
D51P60HL2-M	•	60 kg		20 g	500 mm x 400 mm	80251829
D51P150HX2		150 kg	10 g		550 mm x 420 mm	72200100
D51P150HX2-M	•	150 kg		50 g	550 mm x 420 mm	80251831
D51P300HX2		300 kg	20 g		550 mm x 420 mm	72200101
D51P300HX2-M	•	300 kg		100 g	550 mm x 420 mm	80251832
D51P300QX2		300 kg	20 g		610 mm x 610 mm	72200106
D51P300QX2-M	•	300 kg		100 g	610 mm x 610 mm	80500832

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
AC Relay Option Kit	80500720
Base Mount Kit	80500722
DC Relay Kit	80500727
Battery (Rechargeable Kit)	80500729
RS422/485 (Interface Kit)	80500731
RS232 (Interface Kit)	80500733

Defender™ 3000 Stainless Steel

All stainless steel modular scale for washdown environments

- Sturdy tubular stainless steel platform design with high quality 304 stainless steel top plate
- IP65 stainless steel indicator
- Internal rechargeable battery

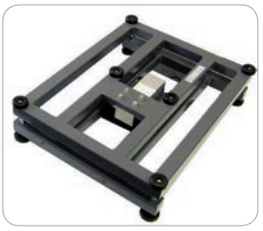
Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N° EU	Item N° UK
D32XW15VR		15kg	2g		355 mm x 305 mm	30369009	30369110
D32XW15VR-M	•	15kg		5g	355 mm x 305 mm	30369111	30369111
D32XW30VR		30 kg	5 g		355 mm x 305 mm	83997636	80252929
D32XW30VR-M	•	30 kg		10 g	355 mm x 305 mm	80252960	80252960
D32XW60VR		60 kg	10 g		355 mm x 305 mm	83997637	80252930
D32XW60VR-M	•	60 kg		20 g	355 mm x 305 mm	80252961	80252961
D32XW60VL		60 kg	10 g		550 mm x 420 mm	83997638	80252931
D32XW60VL-M	•	60 kg		20 g	550 mm x 420 mm	80252962	80252962
D32XW150VL		150 kg	20 g		550 mm x 420 mm	83997639	80252932
D32XW150VL-M	•	150 kg		50 g	550 mm x 420 mm	80252963	80252963
D32XW150VX		150 kg	20 g		650 mm x 500 mm	83997640	80252933
D32XW150VX-M	•	150 kg		50 g	650 mm x 500 mm	80252964	80252964
D32XW300VX		300 kg	50 g		650 mm x 500 mm	83997641	80252934
D32XW300VX-M	•	300 kg		100 g	650 mm x 500 mm	80252965	80252965

Counting is blocked on approved models

Defender™ 3000 Hybrid

The modular scale for tough industrial environments

- Sturdy tubular platform design with high quality 304 stainless steel top plate
- IP65 stainless steel indicator
- Internal rechargeable battery



Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N° EU	Item N° UK
D32XW15BR		15kg	2g		355 mm x 305 mm	30369006	30369007
D32XW15BR-M	•	15kg		5g	355 mm x 305 mm	30369008	30369008
D32XW30BR		30 kg	5 g		355 mm x 305 mm	83997629	80252917
D32XW30BR-M	•	30 kg		10 g	355 mm x 305 mm	80252948	80252948
D32XW60BR		60 kg	10 g		355 mm x 305 mm	83997630	80252918
D32XW60BR-M	•	60 kg		20 g	355 mm x 305 mm	80252949	80252949
D32XW60BL		60 kg	10 g		550 mm x 420 mm	83997631	80252919
D32XW60BL-M	•	60 kg		20 g	550 mm x 420 mm	80252950	80252950
D32XW150BL		150 kg	20 g		550 mm x 420 mm	83997632	80252920
D32XW150BL-M	•	150 kg		50 g	550 mm x 420 mm	80252951	80252951
D32XW150BX		150 kg	20 g		650 mm x 500 mm	83997633	80252921
D32XW150BX-M	•	150 kg		50 g	650 mm x 500 mm	80252952	80252952
D32XW300BX		300 kg	50 g		650 mm x 500 mm	83997634	80252922
D32XW300BX-M	•	300 kg		100 g	650 mm x 500 mm	80252953	80252953

Counting is blocked on approved models

Application Weighing (5 units), basic parts counting

Display LCD with white LED backlight

Operation Internal universal power supply or internal rechargeable battery (included)
Stainless steel

Operation Hybrid Power cord (included) or rechargeable battery (included)

Communication RS232 Interface

Construction Stainless steel IP65 Stainless steel Indicator, IP67 stainless steel load cell, 304 grade stainless steel platform pan with stainless steel tubular frame, column and wall bracket

Construction Hybrid IP65 Stainless steel Indicator, 304 grade stainless steel platform pan with black painted steel tubular frame, IP67 aluminium load cell, stainless steel column and wall bracket included

Design Features Indicator with hinged front cover for easy servicing. 125 % safe overload protection

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Defender™ 3000 Standard

The best selling modular scale for basic industrial needs

- **Sturdy tubular platform design with high quality 304 stainless steel top plate**
- **Approved models**
- **Internal rechargeable battery**

Application Weighing (5 units), basic parts counting

Display LCD with white LED backlight

Operation AC adaptor (supplied) or internal rechargeable battery

Communication RS232 Interface

Construction ABS Indicator, 304 grade stainless steel platform pan with black painted steel tubular frame, IP67 aluminium load cell, painted steel column and wall bracket included

Design Features Platform with 5 or 6 point overload stops for 125 % safe overload protection

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
D31P15BR		15kg	2g		355 mm x 305 mm	30369112
D31P15BR-M	•	15kg		5g	355 mm x 305 mm	30369113
D31P30BR		30 kg	5 g		355 mm x 305 mm	72200167
D31P30BR-M	•	30 kg		10 g	355 mm x 305 mm	80250491
D31P60BR		60 kg	10 g		355 mm x 305 mm	72200168
D31P60BR-M	•	60 kg		20 g	355 mm x 305 mm	80250492
D31P60BL		60 kg	10 g		550 mm x 420 mm	72200169
D31P60BL-M	•	60 kg		20 g	550 mm x 420 mm	80250493
D31P150BL		150 kg	20 g		550 mm x 420 mm	72200170
D31P150BL-M	•	150 kg		50 g	550 mm x 420 mm	80250494
D31P150BX		150 kg	20 g		650 mm x 500 mm	72200171
D31P150BX-M	•	150 kg		50 g	650 mm x 500 mm	80250495
D31P300BX		300 kg	50 g		650 mm x 500 mm	72200172
D31P300BX-M	•	300 kg		100 g	650 mm x 500 mm	80250496
D31P15BR5		15kg	2g		355 mm x 305 mm	30371977
D31P15BR5-M	•	15kg		5g	355 mm x 305 mm	30372081
D31P30BR5		30kg	5g		355 mm x 305 mm	30371978
D31P30BR5-M	•	30kg		10g	355 mm x 305 mm	30372082
D31P60BR5		60kg	10g		355 mm x 305 mm	30371979
D31P60BR5-M	•	60kg		20g	355 mm x 305 mm	30372083
D31P60BL5		60kg	10g		550 mm x 420 mm	30372080
D31P60BL5-M	•	60kg		20g	550 mm x 420 mm	30372084

Handle

Counting is blocked on approved models

Accessories	Item N°
In-use cover, T24	30101017

Accessories available for all Defender Series

Accessories	Item N°
Wheel Kit, Defender Series*	30372146

*Not available for models with 600 kg capacity

Accessories which are suitable for all Defender scales and Terminals equipped with RS232

Accessories	Item N°
Interface Kit RS232-USB	30304101
Interface Kit RS232-Ethernet	30304102

Defender™ 2000

OPTION

The best basic modular scale for dependability and durability at affordable price

- The polished 430 stainless steel platform with painted carbon steel frame
- Plastic LED indicator
- Internal rechargeable battery

Application Weighing (kg, g), basic parts counting

Display Red LED

Operation AC adaptor (supplied) or internal rechargeable battery

Communication RS232 Interface (accessory)

Construction ABS Indicator, 430 grade stainless steel platform with painted steel tubular frame, IP65 aluminium load cell

Design Features Hardware configuration lockout switch, battery saving auto-off, externally visible level bubble, down-stops for overload protection

Model	Capacity	Readability (d)	Platform	Item N°
D24PE30FR	30 kg	5 g	300mm x 500mm	30235922
D24PE60FR	60 kg	10 g	300mm x 500mm	30235927
D24PE60FL	60 kg	10 g	400mm x 500mm	30235932
D24PE150FL	150 kg	20 g	400mm x 500mm	30235937
D24PE150FX	150 kg	20 g	500mm x 600mm	30235942
D24PE300FX	300 kg	50 g	500mm x 600mm	30235947
D24PE300FV	300 kg	50 g	600mm x 800mm	30235952
D24PE600FV	600 kg	100 g	600mm x 800mm	30235957

Accessories	Item N°
RS232 Kit	30101019
Folding Column Kit	30101016
In-Use-Cover	30101017
Load Cell Cable Adapter Kit	30101021
SF40A Impact Printer	30064202

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Ranger® 7000

USB RS 232 2ND INP OPTION RE-CHARGE OPTION

Simplifying even the most complex industrial applications

- **Ten advanced application modes for complex applications, possibility to control peripheral devices and/or a scale platform with option kit**
- **Fast and accurate results thanks to 1 second stabilization time and up to 75,000d or 350,000d display resolution**
- **Modular scale with IP54 cast metal housing and sealed metal indicator to ensure durability**

Application Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), filling, formulation, differential weighing, density weighing

Display Full-colour WQVGA graphic display (4.3 in./10.9 cm diagonal); 4.3"TFT Graphic LCD

Operation AC Power (Included) or Rechargeable Battery (Available as an Accessory); 100 240 VAC / 50/60 Hz Universal Power Supply

Communication Easy access communication ports including standard USB and RS232 and an optional third port of either RS232 or Ethernet. GLP/GMP Data Output with Real Time Clock. Data Transfer Function.

Construction Stainless Steel Platform, Die Cast Housing

Design Features Removable stainless steel platform, check weighing lights with selectable operation and audible signal settings, integral weigh below hook, sealed front panel, menu lock switch, level indicator, adjustable leveling feet, several selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare

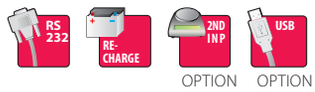
FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Model	M APP	CAL INT	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N° EU	Item N° UK
R71MD3			3 kg	0.05g		280mm x 280mm	3kg, OIML F2 or ASTM CL 4	30088844	30088848
R71MD3-M	•		3 kg		0.5g	280mm x 280mm	3kg, OIML F2 or ASTM CL 4	30104921	30104925
R71MD6			6 kg	0.1g		280mm x 280mm	6kg, OIML F2 or ASTM CL 4	30088845	30088849
R71MD6-M	•		6 kg		1g	280mm x 280mm	6kg, OIML F2 or ASTM CL 4	30104922	30104926
R71MD15			15 kg	0.2g		377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30088846	30088850
R71MD15-M	•		15 kg		2g	377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30104923	30104927
R71MD35			35 kg	0.5g		377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30088847	30088851
R71MD35-M	•		35 kg		5g	377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30104924	30104928
R71MD60		•	60 kg	1g		377mm x 311mm	60kg, OIML F2 or ASTM CL4	30212874	30212875
R71MD60-M	•	•	60 kg		10g	377mm x 311mm	60kg, OIML F2 or ASTM CL4	30238583	30238584
R71MHD3		•	3 kg	0.01g		240mm x 240mm	3kg, OIML F2 or ASTM CL 4	30088832	30088836
R71MHD3-M	•	•	3 kg		0.1g	240mm x 240mm	3kg, OIML F2 or ASTM CL 4	30104929	30104943
R71MHD6		•	6 kg	0.02g		240mm x 240mm	6kg, OIML F2 or ASTM CL 4	30088833	30088837
R71MHD6-M	•	•	6 kg		0.2g	240mm x 240mm	6kg, OIML F2 or ASTM CL 4	30104940	30104944
R71MHD15		•	15 kg	0.1g		377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30088834	30088838
R71MHD15-M	•	•	15 kg		1g	377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30104941	30104945
R71MHD35		•	35 kg	0.1g		377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30088835	30088839
R71MHD35-M	•	•	35 kg		1g	377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30104942	30104946

Accessories	Item N°
PCBA Kit, Alibi Memory	80500503
Ethernet Kit	30037447
RS232 Kit	30037448
2nd platform kit, R71	30097590
In-use cover, R71	30135320

Accessories	Item N°
Discrete I/O Kit, 2-In 4-Out, R71	30097591
Rechargeable Battery, EX-HiCap R71	30041295
Column Kit, Painted, 400mm, R71	30095408
Cable, Extension, 9 m, R71	30101495

Ranger® 4000



OPTION OPTION

The best value for durable industrial weighing

- **Sturdy metal housing and slip-resistant rubber feet provide protection and stability**
- **The largest, white LED display on any scale in its class, combined with checkweighing LEDs and audible indicators, make Ranger 4000 highly functional in loud and dim industrial settings.**
- **SmarText™ software makes scale setup and use very simple.**

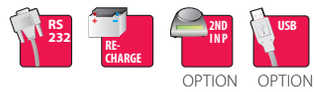
Application	Weighing, parts counting, checkweighing, percent weighing, animal/dynamic weighing, display hold, accumulation
Display	Light-emitting diode display (LED), 3 color checkweighing LEDs
Operation	AC power (included) or rechargeable battery (included)
Communication	Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)
Construction	Rugged Cast Aluminum Housing, Stainless Steel Platform
Design Features	Cast Aluminum Housing, stainless steel platform, integral weigh-below hook,sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
R41ME3		3 kg	0,1 g		300 mm x 225 mm	30236943
R41ME3-M	•	3 kg		1 g	300 mm x 225 mm	30237016
R41ME6		6 kg	0,2 g		300 mm x 225 mm	30231099
R41ME6-M	•	6 kg		2 g	300 mm x 225 mm	30237017
R41ME15		15 kg	0,5 g		300 mm x 225 mm	30231100
R41ME15-M	•	15 kg		5 g	300 mm x 225 mm	30237018
R41ME30		30 kg	1 g		300 mm x 225 mm	30231101
R41ME30-M	•	30 kg		10 g	300 mm x 225 mm	30237019

Accessories	Item N°
2nd Platform	30037446
Ethernet, Kit	30037447
Second RS232 Kit	30037448
USB Kit	30037449
In Use Cover	30240697
SF40A Impact Printer with Cable	30064202

Ranger® 4000 count



OPTION OPTION

The Best Value for Durable Industrial Counting

- **Sturdy metal housing and slip-resistant rubber feet provide protection and stability**
- **Accurate weighing and counting performance is assured through Ranger Count 4000's 1:1,500,000 internal counting resolution**
- **Centrally located count display and dedicated Sample & Tare keys make Ranger Count 4000 very easy to operate.**

Application Weighing, Parts Counting with Auto Optimization, Checkweighing, Accumulation

Display 3 window backlit liquid crystal display (LCD), 3 colour checkweighing LEDs

Operation AC power (included) or rechargeable battery (included)

Communication Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction Rugged Cast Aluminum Housing, Stainless Steel Platform

Design Features Cast Aluminum Housing, stainless steel platform, sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
RC41M3		3 kg	0,1 g		300 mm x 225 mm	30231102
RC41M3-M	•	3 kg		1 g	300 mm x 225 mm	30237020
RC41M6		6 kg	0,2 g		300 mm x 225 mm	30231103
RC41M6-M	•	6 kg		2 g	300 mm x 225 mm	30237021
RC41M15		15 kg	0,5 g		300 mm x 225 mm	30231104
RC41M15-M	•	15 kg		5 g	300 mm x 225 mm	30237022
RC41M30		30 kg	1 g		300 mm x 225 mm	30231105
RC41M30-M	•	30 kg		10 g	300 mm x 225 mm	30237023

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
2nd Platform, Kit	30037446
Ethernet,Kit	30037447
Second RS232 Kit	30037448
USB Kit	30037449
In Use Cover	30240697
SF40A Impact Printer with Cable	30064202

Ranger® 3000

OPTION

The Best Compact Scale in its Class!

- **Weigh below hook**
- **User friendly scale with easy setup**
- **Stable and accurate results within one second**

Application Weighing, parts counting, checkweighing, percentage weighing, dynamic weighing, display hold, accumulation

Display Liquid crystal display (LCD) with backlight

Operation AC power (included) or rechargeable battery (included)

Communication Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction ABS housing, stainless steel platform

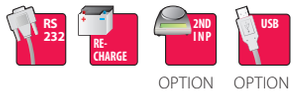
Design Features 210 hours of battery life, 3 LED (yellow, green, red) checkweighing lights with selectable operation and audible signal settings, integral weigh-below hook, transportation handle, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
R31P1502		1.5 kg	0.05 g		225 mm x 300 mm	30031702
R31P1502-M	•	1.5 kg		0.5 g	225 mm x 300 mm	30060902
R31P3		3 kg	0.1 g		225 mm x 300 mm	30031703
R31P3-M	•	3 kg		1 g	225 mm x 300 mm	30060903
R31P6		6 kg	0.2 g		225 mm x 300 mm	30031704
R31P6-M	•	6 kg		2 g	225 mm x 300 mm	30060904
R31P15		15 kg	0.5 g		225 mm x 300 mm	30031705
R31P15-M	•	15 kg		5 g	225 mm x 300 mm	30060905
R31P30		30 kg	1 g		225 mm x 300 mm	30031706
R31P30-M	•	30 kg		10 g	225 mm x 300 mm	30060906

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
Ethernet Kit	30037447
2nd RS232 Kit	30037448
USB Kit	30037449
In Use Cover	30037451

Ranger® 3000 Count



OPTION OPTION

The Best Compact Counting Scale in its Class!

- **Ultra-high internal resolution 1: 1 500 000**
- **30 item library function and optional 2nd scale input**
- **Stable and accurate results within one second**

Application Weighing, parts counting with auto optimization, checkweighing, accumulation

Display 3-Window liquid crystal display (LCD) with backlight

Operation AC power (included) or rechargeable battery (included)

Communication Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction ABS housing, stainless steel platform

Design Features 30 item library (stores 12-digit part numbers, average piece weights, checkcounting or checkweighing parameters, tare weights and accumulated weights or counts), 210 hours of battery life, 3 LED (yellow, green, red) checkweighing lights with selectable operation and audible signal settings, auto tare, transportation handle, numeric keypad, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, optional 2nd scale input

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
RC31P1502		1.5 kg	0.05 g		225 mm x 300 mm	30031782
RC31P1502-M	•	1.5 kg		0.5 g	225 mm x 300 mm	30060907
RC31P3		3 kg	0.1 g		225 mm x 300 mm	30031783
RC31P3-M	•	3 kg		1 g	225 mm x 300 mm	30060908
RC31P6		6 kg	0.2 g		225 mm x 300 mm	30031784
RC31P6-M	•	6 kg		2 g	225 mm x 300 mm	30060909
RC31P15		15 kg	0.5 g		225 mm x 300 mm	30031785
RC31P15-M	•	15 kg		5 g	225 mm x 300 mm	30060910
RC31P30		30 kg	1 g		225 mm x 300 mm	30031786
RC31P30-M	•	30 kg		10 g	225 mm x 300 mm	30060911

Accessories	Item N°
2nd scale Kit	30037446
Ethernet Kit	30037447
2nd RS232 Kit	30037448
USB Kit	30037449
Weigh below hook	30037450
In Use Cover	30037451

Valor™ 7000

RS 232 · RE-CHARGE · USB OPTION

The Best Compact Food Scale in its Class!

- Touchless sensors
- Food Safety Certification (NSF) and supports an HACCP compliant quality system
- Rapid stabilization, accurate results within one second

Application Weighing, checkweighing, percentage weighing, accumulation

Display Front and rear liquid crystal display (LCD) with backlight

Operation AC power (included) or rechargeable battery (included)

Communication Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction ABS housing, stainless steel platform

Design Features Rechargeable battery (200 hours of battery life), 3 LED (yellow, green, red) checkweighing lights with selectable operation and audible signal settings, touchless sensor, transportation handle, sealed front panel, menu lockswitch, up front level indicator, adjustable levelling feet and bubble

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
V71P1502T		1.5 kg	0.05 g		225 mm x 300 mm	30031822
V71P1502T-M	•	1.5 kg		0.5 g	225 mm x 300 mm	30060912
V71P3T		3 kg	0.1 g		225 mm x 300 mm	30031823
V71P3T-M	•	3 kg		1 g	225 mm x 300 mm	30060913
V71P6T		6 kg	0.2 g		225 mm x 300 mm	30031824
V71P6T-M	•	6 kg		2 g	225 mm x 300 mm	30060914
V71P15T		15 kg	0.5 g		225 mm x 300 mm	30031825
V71P15T-M	•	15 kg		5 g	225 mm x 300 mm	30060915
V71P30T		30 kg	1 g		225 mm x 300 mm	30031826
V71P30T-M	•	30 kg		10 g	225 mm x 300 mm	30060916

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Accessories	Item N°
In Use Cover for V71	30037445
Ethernet Kit	30037447
2nd RS232 Kit	30037448
USB Kit	30037449
Weigh below hook	30037450
In Use Cover for V71, 10pcs	30037469

FD Series

All-stainless steel food portioning scale

- **Food safety certification (NSF) and supports an HACCP compliant quality system**
- **Checkweighing capability**
- **Internal rechargeable battery and optional hands-free remote control**

Application Weighing (5 units), positive and negative checkweighing
Display Backlit LCD, 3 LED indicator
Operation AC adaptor (included) or internal rechargeable battery (included)
Construction Stainless steel housing and stainless steel pan
Design Features Manual or automatic tare

Model	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
FD3H		3 kg	0.1 g		209 mm x 209 mm	71210143
FD3		3 kg	0.5 g		209 mm x 209 mm	71170443
FD3-M	•	3 kg		1 g	209 mm x 209 mm	80250418
FD6H		6 kg	0.2 g		209 mm x 209 mm	71210144
FD6		6 kg	1 g		209 mm x 209 mm	71170444
FD6-M	•	6 kg		2 g	209 mm x 209 mm	80250419
FD15H		15 kg	1 g		209 mm x 209 mm	71210145
FD15		15 kg	2 g		209 mm x 209 mm	71170445
FD15-M	•	15 kg		5 g	209 mm x 209 mm	80250420

Accessories	Item N°
Foot switch kit	71169633
In use balance cover	80251140
Hard shell carrying case	80251394

Valor™ 4000

Water proof IP68 table top scale with OIML approval and touchless sensor designed for wet food processing environment

- Flow-through design
- Practical touchless sensor and multi-functionalities
- Knife proof overlay protects Valor 4000 from water & sharp objects damage

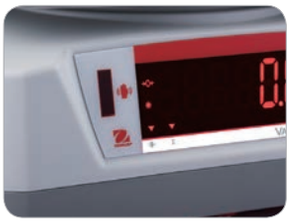
Application Weighing, percentage weighing, checkweighing, accumulation

Display Large dual red led display: 0.8 inch / 20.5 mm height characters

Operation AC adapter (included) or rechargeable battery (included)

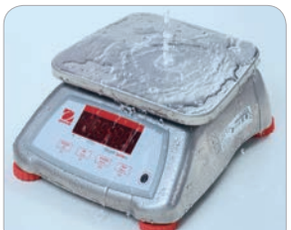
Construction V41PW: ABS housing with stainless steel platform;
V41XW: stainless steel platform and housing

Design Features Less than 0.5s stabilization time, easy-to-transport, power jack auto-closed design, level bubble, fixed weighing pan, overload and underload indicators, low battery indicator, AC adapter, rechargeable battery, touchless sensor for tare function.



Models with plastic housing

Models	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
V41PWE1501T		1.5 kg	0.2 g		242 mm x 190 mm	30072307
V41PWE1501T-M	•	1.5 kg		0.5 g	242 mm x 190 mm	30035653
V41PWE3T		3 kg	0.5 g		242 mm x 190 mm	30072308
V41PWE3T-M	•	3 kg		1 g	242 mm x 190 mm	30035654
V41PWE6T		6 kg	1 g		242 mm x 190 mm	30072309
V41PWE6T-M	•	6 kg		2 g	242 mm x 190 mm	30035655
V41PWE15T		15 kg	2 g		242 mm x 190 mm	30072310
V41PWE15T-M	•	15 kg		5 g	242 mm x 190 mm	30035656



Models with stainless steel housing

Models	M APP	Capacity	Readability (d)	(e)	Platform	Item N°
V41XWE1501T		1.5 kg	0.2 g		242 mm x 190 mm	30072311
V41XWE1501T-M	•	1.5 kg		0.5 g	242 mm x 190 mm	30035663
V41XWE3T		3 kg	0.5 g		242 mm x 190 mm	30072312
V41XWE3T-M	•	3 kg		1 g	242 mm x 190 mm	30035664
V41XWE6T		6 kg	1 g		242 mm x 190 mm	30072313
V41XWE6T-M	•	6 kg		2 g	242 mm x 190 mm	30035665
V41XWE15T		15 kg	2 g		242 mm x 190 mm	30072314
V41XWE15T-M	•	15 kg		5 g	242 mm x 190 mm	30035666

Accessories	Item N°
Stainless Steel Platform, 300 x 225 mm, Valor 4000, Valor 2000	30251753

*APPROVED MODELS NEED REVERIFICATION ONCE 300 X 225MM STAINLESS STEEL PLATFORM IS INSTALLED.

Valor™ 3000

Full stainless steel portable scale

- **High resolution models**
- **IP65 models**
- **Food safety certification (NSF) and supports an HACCP compliant quality system**

Application Weighing (5 units), percentage weighing, specific gravity

Display LCD with white LED backlight

Operation AC adaptor (supplied) or 4 C batteries

Construction Stainless steel housing and stainless steel pan

Design Features Adjustable levelling feet and bubble (only for XW models), load cell lock, user adjustable filtering and optional food accessories

Model	IP	Capacity	Readability (d)	Platform	Item N°
V31XH202		200 g	0.01 g	Ø 120 mm	71210129
V31XH402		400 g	0.01 g	Ø 120 mm	72240776
V31XH501		500 g	0.1 g	Ø 120 mm	72240398
V31XW301	•	300 g	0.1 g	158 mm x 146 mm	71210133
V31XH2		2 kg	0.1 g	158 mm x 146 mm	71210130
V31XW3	•	3 kg	0.5 g	158 mm x 146 mm	71210134
V31X3		3 kg	1 g	158 mm x 146 mm	71210131
V31XH4		4 kg	0.1 g	158 mm x 146 mm	72240399
V31X6		6 kg	1 g	158 mm x 146 mm	71210132
V31XW6	•	6 kg	1 g	158 mm x 146 mm	71210135

Accessories	Item N°
Stainless steel sandwich pan Valor 3000	80251147
S/Steel French fries holder Valor 3000	80251148
S/Steel ice cream cone holder Valor 3000	80251149
Carrying Case, Hard Shell Valor 3000	80251216

S/STEEL FRENCH FRIES HOLDER
VALOR 3000

S/STEEL ICE CREAM CONE HOLDER
VALOR 3000

Valor™ 2000

A rapid-response food scale that enhances productivity in harsh environments!

- **Polycarbonate keypad that can endure contact with knives or sharp instruments used daily in demanding food preparation, processing and portioning applications**
- **Safe to use in the weighing of liquids and in wet environments**
- **Valor 2000's IP68 flow-thru design ensures the scale remains clean and operational**

Application V22PW: weighing; V22XW: weighing, checkweighing

Display Large dual red LED display: 20.5 mm height characters

Operation AC adapter (included) or rechargeable battery (Included)

Construction V22PW: ABS housing with stainless steel platform; V22XW: stainless steel platform and housing

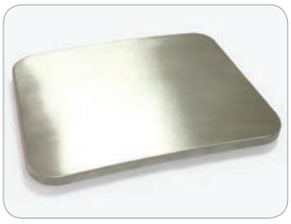
Design Features Less than 0.5s stabilization time, easy-to-transport, power jack auto-closed design, level bubble, fixed weighing pan, overload and underload indicators, low battery indicator, AC adapter, rechargeable battery

Models with plastic housing

Models	Capacity	Readability (d)	Platform	Item N°
V22PWE1501T	1.5 kg	0.2 g	242 mm x 190 mm	30072346
V22PWE3T	3 kg	0.5 g	242 mm x 190 mm	30072347
V22PWE6T	6 kg	1 g	242 mm x 190 mm	30072315
V22PWE15T	15 kg	2 g	242 mm x 190 mm	30072316
V22PWE30T	30 kg	5 g	242 mm x 190 mm	30236101

Models with stainless steel housing

Models	Capacity	Readability (d)	Platform	Item N°
V22XWE1501T	1.5 kg	0.2 g	242 mm x 190 mm	30072348
V22XWE3T	3 kg	0.5 g	242 mm x 190 mm	30072349
V22XWE6T	6 kg	1 g	242 mm x 190 mm	30072317
V22XWE15T	15 kg	2 g	242 mm x 190 mm	30072318
V22XWE30T	30 kg	5 g	242 mm x 190 mm	30236102



LARGER PLATFORM, SEE PAGE 45

Accessories	Item N°
Stainless Steel Platform, 300 x 225 mm, Valor 4000, Valor 2000	30251753

*APPROVED MODELS NEED REVERIFICATION ONCE 300 X 225MM STAINLESS STEEL PLATFORM IS INSTALLED.

Valor™ 1000

Economic compact scales

- **Low cost checkweigher**
- **4 keys for intuitive use**
- **Internal rechargeable battery**

Application Weighing (4 units), accumulation, checkweighing

Display LCD with blue backlight

Operation AC adaptor (included) or internal rechargeable battery

Construction ABS plastic housing with stainless steel pan

Design Features Adjustable levelling feet and front panel level bubble

Model	Capacity	Readability (d)	Platform	Item N°
V11P3	3 kg	0.5 g	250 mm x 180 mm	80251171
V11P6	6 kg	1 g	250 mm x 180 mm	80251172
V11P15	15 kg	2 g	250 mm x 180 mm	80251173
V11P30	30 kg	5 g	250 mm x 180 mm	80251174

Catapult™ 5000

OPTION OPTION

The Heavy-Duty Shipping Scale that Combines Utility and Duribility

- **Large stainless steel platform for weighing heavy loads and packages of varying sizes**
- **Bright LED indicator**
- **Versatile data transfer and power options**

Application Weighing, Dynamic/Display Hold, Accumulation

Display 6-digit, 7-segment red LED

Operation AC adapter (included) or rechargeable lead acid battery (optional)

Communication Optional RS232

Construction ABS plastic indicator housing, stainless steel platform

Design Features Mounting bracket, painted steel frame, tactile mechanical keys, low-profile design, hardware configuration lockout switch, user-selectable span Adjustment points, averaging level, auto zero-tracking, auto shut-off

Model	Capacity	Readability (d)	Platform	Item N°
C51XE6R	6kg	2g	310 mm x 270 mm	30369349
C51XE30R	30kg	10g	310 mm x 270 mm	30369650
C51XE50R	50kg	20g	310 mm x 270 mm	30369651
C51XE200R	200kg	100g	310 mm x 270 mm	30369652
C51XE30L	30kg	10g	400 mm x 520 mm	30369653
C51XE50L	50kg	20g	400 mm x 520 mm	30369654
C51XE100L	100kg	50g	400 mm x 520 mm	30369655
C51XE200L	200kg	100g	400 mm x 520 mm	30369656
C51XE30X	30kg	10g	600 mm x 900 mm	30369657
C51XE50X	50kg	20g	600 mm x 900 mm	30369658
C51XE100X	100kg	50g	600 mm x 900 mm	30369659
C51XE200X	200kg	100g	600 mm x 900 mm	30369660

FOR PRINTERS, CABLES AND SOFTWARE
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Accessories	Item N°
RS232 Kit	30101019
In-Use Cover	30101017
SF40A Impact Printer	30064202
Lead Acid battery, 6V4AH	30251812

SD Series

BAT

Economic shipping scale for everyday usage

- **Large digits for easy reading**
- **Indicator mounting bracket included**
- **Reusable packaging for portability**

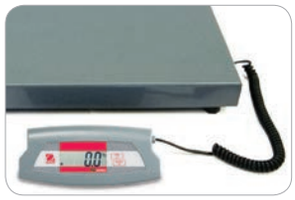
Application Weighing (2 units), dynamic weighing

Display LCD

Operation AC adaptor (included) or 3 C batteries (not included)

Construction ABS plastic indicator housing and painted steel pan with smooth platform on large pan and raised embossed treads on standard

Design Features Universal table/wall mounting brackets included, extendable flexible coiled cable, carry-handle on packaging for ease of portability (not for L version)



Model	Capacity	Readability (d)	Platform	Item N°
SD35	35 kg	20 g	316 mm x 280 mm	71209917
SD75	75 kg	50 g	316 mm x 280 mm	71209918
SD200	200 kg	100 g	316 mm x 280 mm	71209919
SD75L	75 kg	50 g	520 mm x 400 mm	71210078
SD200L	200 kg	100 g	520 mm x 400 mm	71210079

Catapult™ 1000

Entry level low cost compact bench scale

- **Optional stainless steel pan**
- **Economical**
- **Portable with carry handle**

Application Weighing (2 units)
Display LCD
Operation AC adaptor (included) or 3 C batteries (not included)
Construction ABS plastic housing and pan, optional stainless steel pan
Design Features Compact design

Model	Capacity	Readability (d)	Platform	Item N°
C11P9	9 kg	5 g	280 mm x 316 mm	71210146
C11P20	20 kg	10 g	280 mm x 316 mm	71210147
C11P75	75 kg	50 g	280 mm x 316 mm	71210148

Accessories	Item N°
Stainless steel pan cover for C11P	80251248

Navigator® XT

OPTION OPTION OPTION OPTION

Multi-purpose, touch-free portable balance

- **Dual multi-functional touch-free sensors for speed, safety and cleanliness**
- **Bright LCD display, alkaline or rechargeable battery, "plug and play" interfaces including RS232, USB and Ethernet**
- **1 second stabilization time for results in a snap**

Application Weighing (14 units), percentage weighing, checkweighing, parts counting, accumulation/totalization and display hold
Display 6 full segment LCD white auto backlight or, both with multiple icons and indicators
Operation Mains or battery operation with auto shut-off or optional internal rechargeable battery
Communication Easy to install USB, RS232 or Ethernet interface options
Construction ABS plastic with stainless steel pan
Design Features Dual multi-functional touch-free infrared sensors, front level indicator (lit during power up) and non-slip adjustable feet, stability indicator, external menu lock switch, shipping transportation lock on non-approved models, integrated security loop, superior overload protection

Model	M APP	Capacity	Readability (d)	(e)	Platform	Test Weight	Item N°
NVT1601		1.6 kg	0.1 g		230 mm x 174 mm	1000 g, M1	83997654
NVT1601M	•	1.6 kg		0.5 g	230 mm x 174 mm	1000 g, M1	83032030
NVT3201		3.2 kg	0.2 g		230 mm x 174 mm	2000 g, M1	83997656
NVT3200M	•	3.2 kg		1 g	230 mm x 174 mm	2000 g, M1	83032034
NVT6401		6.4 kg	0.5 g		230 mm x 174 mm	5000 g, M1	83997658
NVT6400M	•	6.4 kg		2 g	230 mm x 174 mm	5000 g, M1	83032038
NVT10001		10 kg	0.5 g		230 mm x 174 mm	5000 g, M1	83997660
NVT16000		16 kg	1 g		230 mm x 174 mm	10000 g, M1	83997662
NVT16000M	•	16 kg		5 g	230 mm x 174 mm	10000 g, M1	83032042

Additional models available see page 18

Accessories	Item N°
Rechargeable battery kit for Navigator XT and XL	83032106
RS232 interface kit for Navigator	83032107
USB interface kit for Navigator	83032108
Ethernet interface kit for Navigator	83032109
In-use cover for Navigator XT	83032221
Case, carry, hard shell for Navigator XT	83032224
Anti theft device	80850000

FOR PRINTERS, CABLES AND SOFTWARE
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T82XW Indicator

OPTION OPTION

Touchscreen 8000 Series stainless steel indicator with customizable applications

- **Multiplied communication interfaces**
- **Unique applications including SQC and Vehicle Weighing**
- **Ability to support up to 16x350ohm load cells**

Application Accumulation and Formula weighing, Parts Counting, Weighbridges, SQC, Vehicle, Price Computing and Industrial Labelling, Single-Product Dosage Systems, Multi-component Dosage Systems

Display Backlit graphic display with touch screen technology

Operation AC Power

Communication 2xRS232, RS485 direct mother board connection (1xRS232 through RJ11 plug), USB, Ethernet

Construction IP68 4X stainless steel housing and mounting bracket

Design Features Check weighing lights with selectable operation and audible signal settings, multi operating languages, QWERTY, AZERTY, QWERTZ keyboard options integrated in the touch screen, real-time clock, integrated alibi memory, built-in micro SD slot for recording configuration, logos and customized screens, 4 independent analog channels, selectable environmental and auto-print settings, stability indicator, overload/underload indicators

FOR PRINTERS, CABLES AND SOFTWARE
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Model	Item N° EU	Item N° UK
T82XW	30325752	30325753

Accessories	Item N°
I/O Input, Set(2), T82XW	30325822
I/O Output, Set(4), T82XW	30325823
Analog output Board, T82XW	30344022
6 In /12 Out I/O Board, T82XW	30344023
Multi L/C Input, 4 channel, T82XW	30331635
USB flash driver, T82XW	30331636
RS232-USB, T82XW	30331637
Ethernet, T82XW	30331642
Build-in optoisolated RS485, T82XW	30331643
Wall mount Kit, T82XW	30331644
In Use Cover Kit, T82XW	30328139
License for Display tool, T82XW	30344025
Serial to mini DIN connector, T82XW	30344026
RS232/C serial cable 1.5m, T82XW	30344027
Ethernet cable 1.5m, T82XW	30344028
RS232 Cable for balance, T82XW	30344040

Terminal is delivered with "accumulation and formula weighing" application software installed.
Other software applications are available on http://dmx.Ohaus.Com for free.
* For license number, please contact SSC

T72XW Indicator

OPTION

Advanced performance stainless steel indicator with external device control capabilities

- **50,000 displayed resolution and the ability to support up to 10 load cells**
- **Two available option slots enable a wide range of connectivity interfaces**
- **Vivid graphic display with on-screen prompts and an alphanumeric keypad with designated keys for common functions such as Tare and ID information**

Application Weighing, Parts Counting, Check Weighing, Animal / Dynamic Weighing

Display Transflective graphic LCD with white backlight, 240 x 96 pixels

Operation AC Power (Included)

Communication Easy access communication port including RS232 (included), Ethernet and 2nd RS232 or RS485 (accessories sold separately). GLP/GMP data output with real-time clock

Construction IP66/NEMA 4X stainless steel housing and mounting bracket

Design Features Check weighing lights with selectable operation and audible signal settings, sealed front panel, five operating languages (English, Spanish, French, German and Italian), selectable environmental and auto-print settings, stability indicator, overload/underload indicators

Model	Item N° EU	Item N° UK
T72XW	30126957	30126958

Accessories	Item N°
Ethernet Kit, T72XW	30132163
USB with I/O kit, T72XW	30132164
COM2 Kit, T72XW	30132165
Column Kit, 350mm, SST	80500725
Column Kit, 680mm, SST	80500726

FOR PRINTERS, CABLES AND SOFTWARE
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T71P Indicator

OPTION

Multifunctional 7000 Series ABS indicator for advanced applications

- **Advanced applications including accumulation, library and optional alibi memory**
- **Two scale operation plus multiple interface and relay options**
- **User-selectable language settings & user configurable resolution up to 50 000 d**

FOR PRINTERS, CABLES AND SOFTWARE
SEE P. 65-67

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare, accumulation, library of up to 256 records, optional alibi memory

Display LCD display with white LED backlight, alphanumeric line and multi-language, plus 3 colour checkweigh LED

Operation Internal universal power supply, 6 x C batteries or optional internal NiMH rechargeable battery

Communication RS232 Interface with GMP, Time-Date; optional RS422/485, AC/DC Relay, 2nd RS232

Construction ABS housing

Design Features Alphanumeric keypad, reversible rear cover for cable exit above or below the indicator housing, simple plug and play installation of options, 50 000 d and up to 10 000 e

Model	Item N°
T71P	72200261

Accessories	Item N°
Wall Mount Kit	72200227
Alibi Memory Option Kit	80500503
AC Relay Option Kit	80500720
Base Mount Kit	80500722
Column Kit, 35 cm (painted)	80500723
Column kit, 68 cm paint Def.platform	80500724
DC Relay Kit	80500727
Battery (Rechargeable Kit)	80500729
RS422/485 (Interface Kit)	80500731
RS232 (Interface Kit)	80500733
Load Cell Cable Adapter Kit	80500736

T51XW Indicator

OPTION

Multifunctional 5000 Series washdown indicator

- **IP66 stainless steel housing**
- **Multiple interface and relay options**
- **High resolution, user configurable up to 30 000 d**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

Operation Internal universal power supply or optional internal NiMH rechargeable battery

Communication RS232 Interface with GMP, Time-Date, optional RS422/485, AC/DC Relay, 2nd RS232

Construction IP66 Stainless steel housing

Design Features Hinged front cover for easy servicing, simple plug and play installation of options, 30 000 d and up to 10 000 e

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

Model	Item N° EU	Item N° UK
T51XW	83997620	80251805

T51P Indicator

OPTION

Multifunctional 5000 Series ABS indicator

- **Advanced applications including dynamic and checkweighing**
- **Multiple interface and relay options**
- **High resolution, user configurable up to 30 000 d**

Application Weighing (6 units + custom unit), display hold, dynamic weighing, counting, checkweighing, percentage weighing, auto-tare

Display LCD display with white LED backlight plus 3 colour checkweigh LED

Operation Internal universal power supply, 6 x C batteries or optional internal NiMH rechargeable battery

Communication Optional RS422/485, AC/DC Relay,

Construction ABS housing

Design Features Reversible rear cover for cable exit above or below the indicator housing, non-slip rubber feet. Simple plug and play installation of options, 30 000 d and up to 10 000 e

Model	Item N°
T51P	72200198

Accessories	T51XW	T51P	Item N°
AC Relay Option Kit	•	•	80500720
Column kit, 35 cm S/S Def. pf	•		80500725
Column kit, 68 cm S/S Def. pf	•		80500726
DC Relay Kit	•	•	80500727
Battery (Rechargeable Kit)	•	•	80500729
RS422/485 (Interface Kit)	•	•	80500731
RS232 (Interface Kit)	•	•	80500733
Mounting kit wall	•		80500735
Kit console murale		•	72200227
Base Mount Kit		•	80500722
Column Kit, 35 cm (painted)		•	80500723
Column kit, 68 cm paint Def. platform		•	80500724
Load Cell Cable Adapter Kit		•	80500736
Load Cell Cable – Sealing Collar		•	80500737
RS232-USB (Interface Kit)	•	•	30304101
RS232-Ethernet (Interface Kit)	•	•	30304102

FOR PRINTERS, CABLES AND SOFTWARE SEE P. 65-67

T32XW Indicator

3000 Series stainless steel indicator for washdown environments

- **IP65 stainless steel with hinged front cover for easy servicing**
- **Intuitive usage**
- **Internal rechargeable battery**

Application Weighing (5 units), basic parts counting
Display LCD with white LED backlight
Operation Internal universal power supply or internal rechargeable battery
Communication RS232 Interface
Construction IP65 Stainless steel housing
Design Features Hinged front cover for easy servicing, 20 000 d and up to 6 000 e

Model	Item N° EU	Item N° UK
T32XW	83997635	80252916

FOR PRINTERS, CABLES AND SOFTWARE
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Accessories	Item N°
Column kit 35 cm S/S Def. platform/T3xXW	80251745
Column kit 70 cm S/S Def. platform/T3xXW	80251746
Mounting kit wall SS T32XW	80251748

T32M Indicator

Sturdy 3000 Series metal indicators

- **Feature-rich, yet simple to use and easy to learn**
- **Intuitive usage**
- **Two display versions**

Application Weighing (5 units), basic parts counting, weight accumulation
Display T32MC with backlit LCD / T32ME with LED
Operation AC adaptor (included)
Communication RS232 Interface
Construction ABS front panel with painted carbon steel rear housing
Design Features Textured-surface paint minimizes scratches, 20 000 d and up to 6 000 e

Model	Item N°
T32ME	83997627
T32MC	83997628

FOR PRINTERS, CABLES AND SOFTWARE
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Available for all Defender Bench Scales and Terminals

Model	Item N°
RS232-USB (Interface Kit)	30304101
RS232-Ethernet (Interface Kit)	30304102

T31P Indicator

3000 Series basic industrial indicator

- **Reversible rear cover for cable exit above or below the indicator housing**
- **Intuitive usage**
- **Internal rechargeable battery**

Application	Weighing (5 units), basic parts counting
Display	LCD with white LED backlight
Operation	AC adaptor (supplied) with internal rechargeable battery
Communication	RS232 Interface
Construction	ABS housing
Design Features	Integrated key-hole mounts on back cover, 20 000 d and up to 6 000 e

Model	Item N°
T31P	83998243

FOR PRINTERS, CABLES AND SOFTWARE
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Accessories	Item N°
Column kit 35 cm paint. Def. platform/T31P	80251743
Column kit 70 cm paint. Def. platform/T31P	80251744
Wall Mount Kit, painted steel T31P	80251747

T24PE Indicator

Dependable and durable 2000 Series indicator at affordable price

OPTION

- **Easy-to-read Red LED display**
- **Optional RS232C with manual/continuous/interval printing**
- **Versatile power capabilities including AC adaptor and rechargeable battery in standard**

Application	Weighing (3 units), parts counting, accumulation
Display	6-digit, 7-segment red LED
Operation	AC adapter with internal rechargeable lead acid battery
Communication	Optional RS232
Construction	ABS plastic housing
Design features	Hardware configuration lockout switch, software included for parts counting mode with selectable sample sizes, selectable span Adjustment points

FOR PRINTERS, CABLES AND SOFTWARE
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Model	Item N°
T24PE	30235894

Accessories	Item N°
RS232 Kit	30101019
Folding Column Kit	30101016
In-Use-Cover	30101017
Load Cell Cable Adapter Kit	30101021
SF40A Impact Printer	30064202

VFS Series Stainless Steel Floor Scale Platforms

High quality stainless steel platform with structural bracing

- Structural channel bracing for durability
- IP68 stainless steel load cells
- Pit mounting possibility

Model	Capacity	Platform (mm)	Item N°
VFS-CS300	300 kg	800 x 800 x 90	22015450
VFS-CS600	600 kg	800 x 800 x 90	22015451
VFS-DS300	300 kg	1000 x 1000 x 90	22015452
VFS-DS600	600 kg	1000 x 1000 x 90	22015453
VFS-DS1500	1500 kg	1000 x 1000 x 90	22015454
VFS-E600	600 kg	1500 x 1250 x 90	22015455
VFS-E1500	1500 kg	1500 x 1250 x 90	22015456
VFS-E3000	3000 kg	1500 x 1250 x 90	22015457
VFS-ES600	600 kg	1500 x 1500 x 90	22015458
VFS-ES1500	1500 kg	1500 x 1500 x 90	22015459
VFS-ES3000	3000 kg	1500 x 1500 x 90	22015460
VFS-G1500	1500 kg	2000 x 1500 x 90	22015462
VFS-G3000	3000 kg	2000 x 1500 x 90	22015463

Accessories	Item N°
Ramp 800mm for VFS stainless steel	22015473
Ramp 1000mm for VFS stainless steel	22015474
Ramp 1250mm for VFS stainless steel	22015475
Ramp 1500mm for VFS stainless steel	22015476
Pit frame stainless steel VFS-CS	22015493
Pit frame stainless steel VFS-DS	22015494
Pit frame stainless steel for VFS-E	22015495
Pit frame stainless steel VFS-ES	22015496
Pit frame stainless steel for VFS-G	22015497
Set of footplates S/Steel for VFS	22015581

VFP Series Floor Scale Platforms

High quality painted steel platform

- Structural channel bracing for durability
- Pit mounting possibility
- IP68 stainless steel load cells

Model	Capacity	Platform (mm)	Item N°
VFP-CS300	300 kg	800 x 800 x 90	22015436
VFP-CS600	600 kg	800 x 800 x 90	22015437
VFP-DS300	300 kg	1000 x 1000 x 90	22015438
VFP-DS600	600 kg	1000 x 1000 x 90	22015439
VFP-DS1500	1500 kg	1000 x 1000 x 90	22015440
VFP-E600	600 kg	1500 x 1250 x 90	22015441
VFP-E1500	1500 kg	1500 x 1250 x 90	22015442
VFP-E3000	3000 kg	1500 x 1250 x 90	22015443
VFP-ES600	600 kg	1500 x 1500 x 90	22015444
VFP-ES1500	1500 kg	1500 x 1500 x 90	22015445
VFP-ES3000	3000 kg	1500 x 1500 x 90	22015446
VFP-G1500	1500 kg	2000 x 1500 x 90	22015448
VFP-G3000	3000 kg	2000 x 1500 x 90	22015449

Accessories	Item N°
Pit frame painted for VFP-CS	22015392
Pit frame painted for VFP-DS	22015393
Pit frame painted for VFP-E	22015394
Pit frame painted for VFP-ES	22015396
Pit frame painted for VFP-G	22015397
Ramp 800 mm for VFP painted steel	22015464
Ramp 1000 mm for VFP painted steel	22015465
Ramp 1250 mm for VFP painted steel	22015466
Ramp 1500 mm for VFP painted steel	22015467
Set of footplates painted steel for VFP	22015499

Please refer to page 28 for columns available for all platforms

VE Series Stainless Steel Floor Scale Platforms

Economical stainless steel platform

- Affordable without compromising on quality
- IP67 IOML R60 alloy steel load cells

Model	Capacity	Platform (mm)	Item N°
VE1500SW	1500 kg	1000 x 1000 x 90	80251478
VE1500RW	1500 kg	1250 x 1250 x 90	80251479
VE3000RW	3000 kg	1250 x 1250 x 90	80251480
VE1500LW	1500 kg	1500 x 1500 x 90	80251481
VE3000LW	3000 kg	1500 x 1500 x 90	80251482

Accessories	Item N°
Ramp 1000 mm for VE Stainless steel	72198341
Ramp 1250 mm for VE Stainless steel	72198342
Ramp 1500 mm for VE Stainless steel	72198343
Set of Footplates	72198345

DF Series Floor Scale Platforms

Versatile, low cost painted steel floor scale platform

- IP67 OIML R60 alloy steel load cells
- Platform with raised embossed treads

Model	Capacity	Platform (mm)	Item N°
DF1500BS	1500 kg	800 x 800 x 110	83032905
DF1500BR	1500 kg	1000 x 1000 x 110	83032906
DF1500BL	1500 kg	1200 x 1200 x 110	83032907
DF3000BL	3000 kg	1200 x 1200 x 110	83032908
DF1500BLX	1500 kg	1200 x 1500 x 110	83033738
DF3000BLX	3000 kg	1200 x 1500 x 110	83033739
DF1500BX	1500 kg	1500 x 1500 x 110	83032909
DF3000BX	3500 kg	1500 x 1500 x 110	83032910

Accessories	Item N°
Ramp 800 DF	80252722
Ramp 1000 DF	80252723
Ramp 1200 DF	80252724
Ramp 1500 DF	80252725
Pit frame, 800 mm for DF	83033708
Pit frame, 1000 mm for DF	83033709
Pit frame, 1200 mm for DF	83033710
Pit frame, 1500 mm for DF	83033711
Pit frame, 1200 mm x 1500 mm for DF	83033714

Please refer to page 28 for columns available for all platforms

VF Series Stainless Stell and Steel Pallet Platforms

High quality German engineered construction to ensure durability and reliability

- Rugged pallet U-frame design available in painted mild steel or stainless steel
- 4 IP68 electro-polished stainless steel load cells
- IP67 stainless steel junction box with heavy duty 5m cable

Model	IP	Stainless	Steel	Capacity	Platform	Item N°
VFSP-600	•	•		600 kg	1256 mm x 840 mm	22015683
VFSP-1500	•	•		1500 kg	1256 mm x 840 mm	22015684
VFPP-600			•	600 kg	1256 mm x 840 mm	22015681
VFPP-1500			•	1500 kg	1256 mm x 840 mm	22015682

VE Series Stainless Stell and Steel Pallet Platforms

Value solution for dry and washdown weighing needs

- Integrated lifting handle and rollers for convinient lifting and relocation
- IP65 dust and water immersion protected stainless steel junction box
- Painted carbon steel and stainless steel models available

Model	IP	Stainless	Steel	Capacity	Platform	Item N°
VE1500PW	•	•		1500 kg	1260 mm x 840 mm	80251483
VE1500P			•	1500 kg	1260 mm x 840 mm	80251476

Please refer to page 28 for columns available for all platforms

Defender™ W Series Stainless Steel Bases

Top quality platform for industrial washdown environments

- All stainless steel form and weld frame with stainless steel top plate
- Durability, rigidity and structural integrity

Model	Capacity	Platform	Item N°
D15WR	15 kg	305 mm x 305 mm	80251892
D30WR	30 kg	305 mm x 305 mm	80251893
D60WL	60 kg	457 mm x 457 mm	80251894
D150WL	150 kg	457 mm x 457 mm	80251895
D300WX	300 kg	610 mm x 610 mm	80251896

Defender™ H Series Bases

Top quality platform for industrial environments

- Black polyurethane painted steel form and weld frame with stainless steel top cover
- Durability, rigidity and structural integrity

Model	Capacity	Platform	Item N°
D15HR	15 kg	355 mm x 305 mm	80251880
D30HR	30 kg	355 mm x 305 mm	80251881
D60HR	60 kg	355 mm x 305 mm	80251882
D60HL	60 kg	500 mm x 400 mm	80251883
D150HX	150 kg	550 mm x 420 mm	80251885
D300HX	300 kg	550 mm x 420 mm	80251886

Defender™ Q Series Bases

Top quality platform for industrial environments

- Black polyurethane painted steel form and weld frame with stainless steel top cover
- Durability, rigidity and structural integrity

Model	Capacity	Platform	Item N°
D15QR	15 kg	305 mm x 305 mm	80251887
D30QR	30 kg	305 mm x 305 mm	80251888
D60QL	60 kg	457 mm x 457 mm	80251889
D150QL	150 kg	457 mm x 457 mm	80251890
D300QX	300 kg	610 mm x 610 mm	80251891

Defender™ V Series Stainless Steel Bases

Stainless steel platform for washdown environments

- Sturdy tubular platform design with high quality 304 stainless steel top plate
- IP67 OIML R60 stainless steel load cell

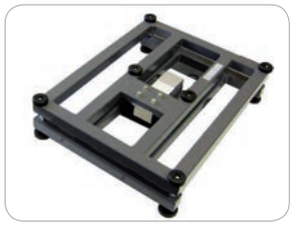
Model	Capacity	Platform	Item N°
D15VR	15kg	355 mm x 305 mm	30333890
D30VR	30 kg	355 mm x 305 mm	80250539
D60VR	60 kg	355 mm x 305 mm	80250540
D60VL	60 kg	550 mm x 420 mm	80250541
D150VL	150 kg	550 mm x 420 mm	80250542
D150VX	150 kg	650 mm x 500 mm	80250543
D300VX	300 kg	650 mm x 500 mm	80250544

Defender™ B Series Bases

The best platform for basic industrial needs

- Sturdy tubular platform design with high quality 304 stainless steel top plate
- IP67 OIML R60 aluminium load cell

Model	Capacity	Platform	Item N°
D15BR	15kg	355 mm x 305 mm	30369005
D30BR	30 kg	355 mm x 305 mm	80250479
D60BR	60 kg	355 mm x 305 mm	80250480
D60BL	60 kg	550 mm x 420 mm	80250481
D150BL	150 kg	550 mm x 420 mm	80250482
D150BX	150 kg	650 mm x 500 mm	80250483
D300BX	300 kg	650 mm x 500 mm	80250484



OIML E2 Weights

Stainless steel

Model	Item N°
Weight 5 g OIML E2	11117000
Weight 10 g OIML E2	11117001
Weight 20 g OIML E2	11117002
Weight 50 g OIML E2	11117003
Weight 100 g OIML E2	11117004
Weight 200 g OIML E2	11117005

Model	Item N°
Weight 5 g OIML E2, (with certificate)	11117018
Weight 10 g OIML E2, (with certificate)	11117019
Weight 20 g OIML E2, (with certificate)	11117020
Weight 50 g OIML E2, (with certificate)	11117021
Weight 100 g OIML E2, (with certificate)	11117022
Weight 200 g OIML E2, (with certificate)	11117023

OIML F1 Weights

Stainless steel

Model	Item N°
Weight 1 g OIML F1	11117035
Weight 2 g OIML F1	11117036
Weight 5 g OIML F1	11117037
Weight 10 g OIML F1	11117038
Weight 20 g OIML F1	11117039
Weight 50 g OIML F1	11117040
Weight 100 g OIML F1	11117041
Weight 200 g OIML F1	11117042
Weight 500 g OIML F1	11117043
Weight 1 kg OIML F1	11117044
Weight 2 kg OIML F1	11117045
Weight 5 kg OIML F1	11117046
Weight 10 kg OIML F1	11117047

Model	Item N°
Weight 1 g OIML F1, (with certificate)	11117091
Weight 2 g OIML F1, (with certificate)	11117092
Weight 5 g OIML F1, (with certificate)	11117093
Weight 10 g OIML F1, (with certificate)	11117094
Weight 20 g OIML F1, (with certificate)	11117095
Weight 50 g OIML F1, (with certificate)	11117096
Weight 100 g OIML F1, (with certificate)	11117097
Weight 200 g OIML F1, (with certificate)	11117098
Weight 500 g OIML F1, (with certificate)	11117099
Weight 1 kg OIML F1, (with certificate)	11117100
Weight 2 kg OIML F1, (with certificate)	11117101
Weight 5 kg OIML F1, (with certificate)	11117102
Weight 10 kg OIML F1, (with certificate)	11117103

OIML M1 Weights

Stainless steel

Model	Item N°
Weight 1 g OIML M1	11117141
Weight 2 g OIML M1	11117142
Weight 5 g OIML M1	11117143
Weight 10 g OIML M1	11117144
Weight 20 g OIML M1	11117145
Weight 50 g OIML M1	11117146
Weight 100 g OIML M1	11117147
Weight 200 g OIML M1	11117148
Weight 500 g OIML M1	11117149
Weight 1 kg OIML M1	11117150
Weight 2 kg OIML M1	11117151
Weight 5 kg OIML M1	11117152
Weight 10 kg OIML M1	11117153

Model	Item N°
Weight OH 1 g M1AC (with certificate)	11117220
Weight OH 2 g M1AC (with certificate)	11117221
Weight OH 5 g M1AC (with certificate)	11117222
Weight OH 10 g M1AC (with certificate)	11117223
Weight OH 20 g M1AC (with certificate)	11117224
Weight OH 50 g M1AC (with certificate)	11117225
Weight OH 100 g M1AC (with certificate)	11117226
Weight OH 200 g M1AC (with certificate)	11117227
Weight OH 500 g M1AC (with certificate)	11117228
Weight OH 1 kg M1AC (with certificate)	11117229
Weight OH 2 kg M1AC (with certificate)	11117230
Weight OH 5 kg M1AC (with certificate)	11117231
Weight OH 10 kg M1AC (with certificate)	11117232

OIML M3 Weights

Stainless steel

Model	Item N°
Weight 1 g OIML M3	11117206
Weight 2 g OIML M3	11117207
Weight 5 g OIML M3	11117208
Weight 10 g OIML M3	11117209
Weight 20 g OIML M3	11117210
Weight 50 g OIML M3	11117211
Weight 100 g OIML M3	11117212
Weight 200 g OIML M3	11117213
Weight 500 g OIML M3	11117214
Weight 1 kg OIML M3	11117215
Weight 2 kg OIML M3	11117216
Weight 5 kg OIML M3	11117217
Weight 10 kg OIML M3	11117218

Model	Item N°
Weight 1 g OIML M3 (with certificate)	11117234
Weight 2 g OIML M3 (with certificate)	11117235
Weight 5 g OIML M3 (with certificate)	11117236
Weight 10 g OIML M3 (with certificate)	11117237
Weight 20 g OIML M3 (with certificate)	11117238
Weight 50 g OIML M3 (with certificate)	11117239
Weight 100 g OIML M3 (with certificate)	11117240
Weight 200 g OIML M3 (with certificate)	11117241
Weight 500 g OIML M3 (with certificate)	11117242
Weight 1 kg OIML M3 (with certificate)	11117243
Weight 2 kg OIML M3 (with certificate)	11117244
Weight 5 kg OIML M3 (with certificate)	11117245
Weight 10 kg OIML M3 (with certificate)	11117246

OIML M1 Weights

Iron

Model	Item N°
Rectangular weight 20 kg M1	87000007
Rectangular weight 10 kg M1	87000008
Rectangular weight 5 kg M1	87000009

OIML Weight sets 1 mg

Model	Item N°
M1 Weight set 1 mg 500 mg (ALU)	87000010
M1 Weight set 1 mg 100 g (ALU/Brass, SST)	87000011
M1 Weight set 1 mg 200 g (ALU/Brass, SST)	87000012

Model	Item N°
F1 Weight set 1 mg – 500 mg (with certificate)	87000034

OIML Weight sets 1 g

Model	Item N°
M1 Weight set 1 g 50 g (Brass)	87000013
M1 Weight set 1 g 500 g (SST, Brass)	87000014
M1 Weight set 1 g 1000 g (SST, Brass)	87000015
M1 Weight set 1 g 2000 g (SST, Brass)	87000016

Model	Item N°
F1 Weight set 1 g – 500 g (with certificate)	87000035

SF40A

Full-Featured Impact Printer

- **Statistics, totalization and real time clock to complement OHAUS weighing instruments' application modes***
- **RS232 interface and PC configuration software**
- **Ability to print in 13 different languages**

* compatible with most of OHAUS products

Application Time, date, statistics, totalization

Design Features Status indicator, 40 characters per line, compatible with continuous labelpaper, perform zero and tare operations dlrectly from the printer

Model	Item N°
Printer SF40A	30064202

STP103

Economical Palm-Sized Thermal Printer

- **Ultra compact and features low power consumption**
- **42 column printing at a speed of approximately 11.8 lines per second**
- **Simple paper loading and suspends printing when printing paper becomes low**

Design Features Status indicator, paper feed, graphics printing capability

Model	Item N° UK	Item N° EU
STP103 Thermal Printer	80251994	80251993

Accessories	SF40A	STP103	Item N°
Paper Roll, Thermal, STP103		•	80251931
Axis, Paper Roll, SF40A	•		30063920
Paper Roll, 57.5mm (x2), SF40A	•		12120799
Ink Ribbon	•		12120798
Paper roll, adhesive (x3)	•		11600388

Printer Cables

Printer Cables	Item N°	Explorer EX (Version 2 Terminal)	Adventurer AX	Pioneer	Pioneer Plus	MB120, 90	MB25, 23	Nvaigator	Scout X	Traveler	Defender 2000 TxxP	Defender 3000 TxxP, TxxM	Defender 5000 TxxP	Defender 7000 T71P	Defender 3000 TxxXW	Defender 5000 TxxXW	Defender 7000 T71XW	Defender 7000 T72XW	CKW	Valor 7000	Ranger 3000	Ranger 4000	Ranger 7000	Catapult 5000
Printer cable Adapter SF42, SRP275	80500572							•	•	•														
Printer Cable SF40A	80500552														•	•	•	•	•					
Printer cable STP103	80252584														•	•	•	•	•					
Printer cable STP103	80252581	•	•	•	•	•	•				•	•	•	•						•	•	•	•	
Printer cable CBM910	80252574														•	•	•	•	•					
Printer cable CBM910	80252571	•	•	•	•	•	•				•	•	•	•										
Printer cable Adapter CBM910	80251934							•	•	•														
Printer cable Adapter STP103	80251930							•	•	•														
Printer cable Adapter SF40A	30059316							•		•														
Printer Cable RS232 T4	30057595	•	•	•	•	•	•				•	•	•	•						•	•	•	•	
Printer Cable SF42, SRP275	21253677	•	•	•	•	•	•				•	•	•	•						•	•	•	•	
Printer Cable SF40A	12122603	•	•	•	•	•	•				•	•	•	•						•	•	•	•	•

Items 12122603 and 30059316 are included with the SF40A printer package.
Please check cables compatibility with our Sales Support Center prior to placing an order

ION-100A Ionizer

Increasing weighing accuracy by reducing static electricity

- **Fan-free technology neutralizes static with no sample disruption**
- **an easily replaceable long-running motor**
- **A compact and versatile design**

Application Eliminating static electricity on plastic and glass weighing vessels which are particularly prone to attracting static charges

Design Features Fan-free technology. Replaceable electrodes. Adjustable angle for better alignment with the balance

Model	Item N°
ION-100A	30095929

Accessories	Item N°
Replacement Electrode ION-100A	30133391

Pipette Adjustment Kit

For Explorer Semi-Micro balances

Application Pipette Adjustment for Explorer Semi-Micro balances

Model	Item N°
Pipette adjustment kit, EX Semi-Micro	30252145

PC Cables

PC Cables	Item N°	Explorer EX (Version 2 Terminal)	Adventurer AX	Pioneer	Pioneer Plus	MB120, 90	MB 25, 23	Nvaigator	Scout X	Traveler	Defender 2000 TxxP	Defender 3000 TxxP, TxxM	Defender 5000 TxxP	Defender 5000 TxxP 2nd RS232	Defender 7000 T71P	Defender 7000 T71P 2nd RS232	Defender 3000 TxxXW	Defender 5000 TxxXW	Defender 5000 TxxXW 2nd RS232	Defender 7000 T71XW	Defender 7000 T71XW 2nd RS232	Defender 7000 T72XW	Defender 7000 T72XW 2nd RS232 (COM 2)	CKW	Valor 7000	Valor 7000 2nd RS232	Ranger 2000	Ranger 3000	Ranger 3000 2nd RS232	Ranger 4000	Ranger 4000 2nd RS232	Ranger 7000	Ranger 7000 2nd RS232	Catapuilt 5000
Interface Cable, USB (Type A to B)	83021085		•			•																•			•			•		•		•		
PC Cable 9 pin	80500552													•		•	•	•	•	•	•	•	•	•		•			•		•		•	
Cable Adapte USB-RS232	30268619	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Interface Cable, USB (type A to Mini B)	28120263	•																																
PC Cable 9 pin	410024	•	•	•	•	•	•				•	•	•		•										•			•		•		•		•

Please check cables compatibility with our Sales Support Center prior to placing an order

Software

Serial Port Data Collection Software

- **Free of charge!**
- **Automatic data capture**
- **Direct data transfer to MS Office Excel, Word, Access or text file**
- **Compatible with OHAUS scales and balances* equipped with RS232**

* list of compatible products available on request

Note

Note

Ranger® 1000 Count

Reliability, portability and accurate counting operations in one affordable package!

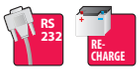
- Dedicated counting keypad providing fast and simple operation
- Average piece weight (APW) memory speeds up counting of commonly counted parts
- Continual recalculation of piece weight and high internal resolution 1:300 000 ensures counting accuracy

Model	Capacity	Readability (d)	Platform	Item N°
RC11P3	3 kg	0.2 g	294 mm x 226 mm	30105953
RC11P6	6 kg	0.5 g	294 mm x 226 mm	30105954
RC11P15	15 kg	1 g	294 mm x 226 mm	30105955
RC11P30	30 kg	2 g	294 mm x 226 mm	30105956

Accessories	Item N°
SST Pan, RC11, A31	80120009
In Use Cover, RC11	80120028

Defender™ 2200

For basic industrial applications needs



- Affordable with no compromise on quality
- Tubular platform structure and AISI 304 stainless steel top plate
- Feature-rich, yet simple to use and easy to learn

Application Weighing (5 units), basic parts counting

Display LCD with white LED backlight

Operation AC adaptor (supplied)

Communication RS232 Interface

Construction ABS front panel w/ painted carbon steel rear housing Indicator, IP67 aluminium load cell, 304 grade stainless steel platform pan with black painted steel tubular frame, column and wall bracket

Design Features 125% safe overload protection

Model	M APP	Capacity	Readability (d)	Platform	Item N°
D22M30BRZ	•	30 kg	10 g	355 mm x 305 mm	83033781
D22M60BRZ	•	60 kg	20 g	355 mm x 305 mm	83033782
D22M60BLZ	•	60 kg	20 g	550 mm x 420 mm	83033783
D22M150BLZ	•	150 kg	50 g	550 mm x 420 mm	83033784
D22M150BXZ	•	150 kg	50 g	650 mm x 500 mm	83033785
D22M300BXZ	•	300 kg	100 g	650 mm x 500 mm	83033786

www.ohaus.com

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