

## Wilcoxon Research 4-20 mA sensors

Simplified 24/7 vibration monitoring



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extreme environments



- 4-20 mA and dynamic vibration output
- Temperature output
- Sensors capable of continuous operation at 105° C
- English / metric full scale options available
- NEMA enclosure packaging available
- Optional configurations:
  - > MIL-C-5015 or M12 connector
  - > integral cable

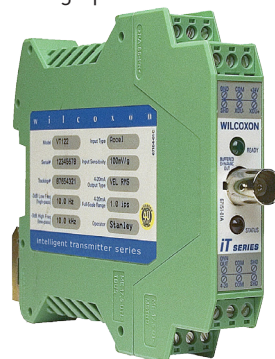
The **Intelligent Transmitter Series** of vibration transmitters, vibration alarms, and communication modules can be used to implement low-cost online vibration monitoring and simplified machinery monitoring and alarming.

The iT Alarm works with any 4-20 mA sensor and has 3 adjustable relays for alarm notification



3 field configurable 8 amp relays

The iT Transmitter outputs 4-20 mA and unfiltered time data, integrates between acceleration, velocity, and displacement, and has adjustable low and high pass filters



RMS, peak, true peak and true peak-peak signal detection plus numerous full scale ranges

The iT Communications Module transmits real-time data to any PC for trending and storage

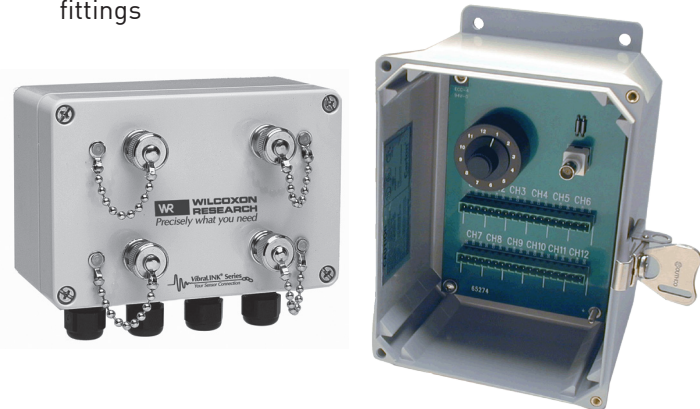


RS232 connection with LabVIEW software for continuous monitoring

## Wilcoxon Research enclosures

### Connection / switch boxes

- Fast and cost effective way to obtain data from permanent mounted accelerometers
- Switch boxes with 6-48 channels
- All switch boxes (single and triaxial) have differential switching for greater noise immunity
- Radio frequency interference filtering
- NEMA 4 or 4X rated enclosures
- Select models available\*: CB2, JB06-1H, RB16
- Optional: bias output meter, cord grips / conduit fittings



\*For complete Wilcoxon Research product details visit [www.wilcoxon.com](http://www.wilcoxon.com) or call +1 301 330 8811



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Wilcoxon  
Research  
**50**  
YEARS  
1960-2010

## Vibration monitoring solutions from Meggitt's Wilcoxon Research products

Accelerometers, vibration transmitters and alarms, 4-20 mA vibration sensors, cables and enclosures

For over 50 years, Wilcoxon Research has been manufacturing vibration instrumentation with **TLC**—Total Lower Cost of Ownership.

When you factor in our world-class service and support, industry-leading product quality and reliability, over 98% on-time delivery, and competitive pricing, you will see how using Wilcoxon brand sensors helps your bottom line.

Ideal for continuous monitoring applications:

- >> Gearboxes
- >> Machine tool spindles
- >> Fans and compressors
- >> Motors and pumps

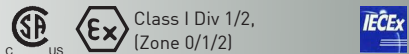


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## Wilcoxon Research accelerometers

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### General purpose



- Top or side exit models
- Dual output with temperature sensors
- Sensitivity tolerance of 5%, 10% or 15%
  - › Class I Div 1, Class I Div 2 versions available
- Select models available\*: 780A, 786A, 787A
- Optional configurations:
  - › MIL-C-5015 or M12 connector
  - › integral cable



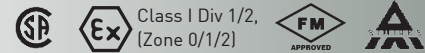
### Premium



- Wilcoxon Research signature sensors
- Radiation resistant models available
- Dual output with temperature sensors
- 40 year proven performance
- Reverse wire and miswiring protection
- Select models available\*: 793, 797, 793R



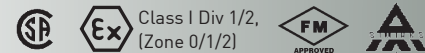
### Low frequency



- True high sensitivity design for greater signal to noise ratio
- Built in low pass filter protects against sensor overload
- Ideal for wind turbine applications
- Superior noise floor performance
- Select models available\*: 793L, 797L, 799LF



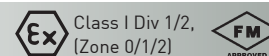
### Velocity



- Direct readout in velocity units
- Sensitivity tolerance of 5% or 10%
- Available with 100 or 500 mV/in/sec output
- Built in integrator for improved signal to noise ratio
- Select models available\*: 793V, 793VR, 797V



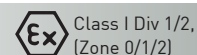
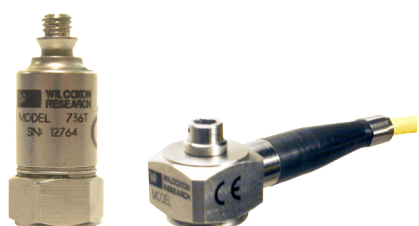
### High temperature



- Performance capability up to 260° C
- FireFet series (IEPE) designed for continuous operation up to 302° F (150° C)
- Ideal for paper mill dryer applications
- Integral cable models available
- Select models available\*: 376, 712E, 793-6



### High frequency



- Typical applications include gear mesh monitoring and early bearing fault detection
- Available with 10 or 100 mV/g sensitivity output
- Small size compatible with machine tool and turbo charger applications
- Intrinsically safe certified models available
- Select models available\*: 712F, 732, 736T



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## Wilcoxon Research accelerometers

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### Underwater



- Continuous submersion to 1,500 ft (450 m)
- Single axis and bi-axial units available
- Titanium cased units for better protection against galvanic corrosion
- Integral cable models with true hermetic sealing and water blocked cables
- Select models available\*: 746, 757, 787F (30 ft)



### Triaxial



- Three sensing elements within a single housing element
- 25, 50 or 100 mV/g outputs available
- Broad frequency range up to 10 kHz
- Benefits:
  - › Increased speed of data collection
  - › Enables repeatable 3 axis data collection when used with mounting pad
  - › Simplified wiring for permanent installations
- Select models available\*: 993A, 993B, 993B-7-M12



### Seismic



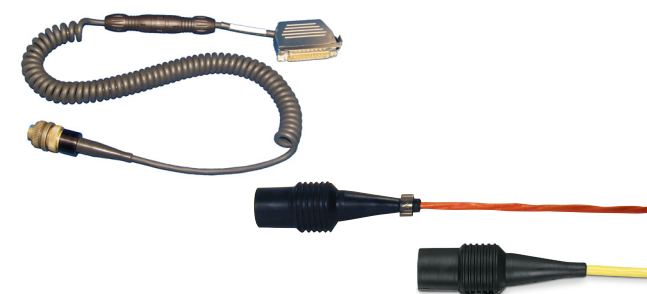
- Designed to measure low amplitude, low frequency signals
- Applications: seismic events, tower sway, structural analysis, perimeter line monitoring
- Measurements to the nano g level
- 10 V/g sensitivity output
- Models available: 731-207, 731A, 735T



## Wilcoxon Research accessories

### Cable assemblies

- Solder or crimp field installation kits
- Data collector cables for most data collectors: CSI, Commtest, Azima-DLI, SKF, Rockwell
- Connector options: MIL-C-5015, M12, BNC, 10-32 Microdot, breakaway safety connector, and many more
- Cable types: shielded twisted pair, multi-conductor, coaxial, low noise mineral
- Insulation options: Teflon®, Enviroprene (Santoprene®), Polyurethane jackets, straight or coiled, stainless steel over-braid, armor



### Accessories

Everything you need to complete your sensor installation

- Mounting pads and fin mounts
- Assortment of studs
- Epoxies
- Magnetic bases
- Zerk fittings and isolation adapters
- Triaxial mounting cubes
- Spot face tools



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