



**Meggitt Sensing Systems vibration monitoring solutions**  
Wilcoxon Research® short-form catalog

**MEGGITT**  
smart engineering for  
extreme environments

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## Industry-leading sensors

Meggitt Sensing Systems is a leading innovator and manufacturer of vibration sensing products and systems. Our reputation as an industry leader of quality products is backed by more than 60 years of experience providing innovative, reliable sensors.

The early detection of changes in the vibration signature of machinery is critical in preventing damage to equipment and the resulting costly delays. Meggitt offers the industry standard Wilcoxon Research® products for condition monitoring of rotating machinery. The quality and performance of our sensors ensure accurate signals for timely detection of changing vibration levels, enabling successful condition based maintenance of critical and balance-of-plant assets.



## One sensor for life

Meggitt sensors offer total lower cost of ownership through extremely low failure rates and long-term, consistent performance. Hermetic welds verified by helium leak testing eliminate contaminants from entering the sensor and ensure a long life. Sensing crystals undergo piezoelectric stabilization to minimize signal drift over the entire life of the sensor. The highest quality 316L stainless steel is used for housings to withstand harsh plant environments. Electromagnetic and radio frequency interference are blocked by Faraday cages so the sensor outputs noise-free vibration signals. The stable performance of Meggitt sensors means that once installed, you can expect a lifetime of trouble free monitoring, eliminating costly replacements.



## Custom engineering

Meggitt Sensing Systems is dedicated to advancing new technologies and vibration detection solutions. Whether customizing a product to meet a specific application, or developing new technology, we bring over 60 years of experience in quality and innovation. For additional requirements, our experienced engineers and research scientists will work with you to develop a custom product. Whether you need minor modifications to a standard product or an entirely new sensor concept, Meggitt has the technology to enable your success.



## Meggitt Advanced Sensing Technologies (MAST)

MAST excels in high performance sensing and monitoring systems for military, energy and industrial applications. Our diverse research and development staff has extensive experience in creating products for complex monitoring systems. From concept to production, MAST delivers cutting-edge solutions using the latest advancement in technologies for extreme environments. For more information to see how MAST can help you with your advanced monitoring needs, contact [AdvSensTech@meggitt.com](mailto:AdvSensTech@meggitt.com).



# General purpose accelerometers

Longlasting sensors measure vibration across a broad frequency range for monitoring of most industrial machinery:

- Motors, fans, pumps 600 - 7,200 RPM (10 - 120 Hz)
- Moderate speed gearboxes 60 - 60,000 RPM (1.0 - 1,000 Hz)
- Machine tool spindles 1,000 - 840,000 RPM (16.6 - 14,000 Hz)
- Paper machine rolls 30 - 600 RPM (0.5 - 10 Hz)
- Compressors 1,500 - 600,000 RPM (25 - 10,000 Hz)



Wilcoxon® model	786A	786A-M12	786-500	787A	787B
<b>Description</b>	Standard accelerometer	Standard accelerometer with M12 connector	High sensitivity accelerometer	Standard side-exit accelerometer	Standard side-exit accelerometer
<b>Sensitivity mV/g</b>	100	100	500	100	100
<b>Sensitivity tolerance</b>	± 5%	± 5%	± 5%	± 5%	± 10%
<b>Frequency response ±3 dB Hz</b>	0.5 - 14,000	0.5 - 14,000	0.2 - 14,000	0.7 - 10,000	0.7 - 10,000
<b>Resonance frequency kHz</b>	30	30	30	22	22
<b>Electrical noise 100 Hz</b>	5 µg/VHz	5 µg/VHz	1.5 µg/VHz*	5 µg/VHz	5 µg/VHz
<b>Max temperature</b>	120° C	120° C	120° C	120° C	120° C
<b>Bias output voltage</b>	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 captive screw	1/4-28 captive screw
<b>Output connector</b>	2 pin MIL-C-5015 style	4 pin M12 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style
<b>Hazardous area options</b>	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	N/A
<b>Additional information</b>	Usable for most industrial machine monitoring	M12 connector commonly used for process control applications	Broadband low frequency sensor for demanding low speed applications including wind turbine monitoring. Optional M12 connector	Optional: M6 or M8 captive mounting screw, M12 connector	Optional: M6 or M8 captive mounting screw

\* typical

# General purpose accelerometers

## Industries served

- Automotive
- Pharmaceutical
- Food and beverage
- High tech fabrication
- Extrusion
- Water and water treatment
- Petrochemical
- Pulp and paper
- Power generation
- Process monitoring



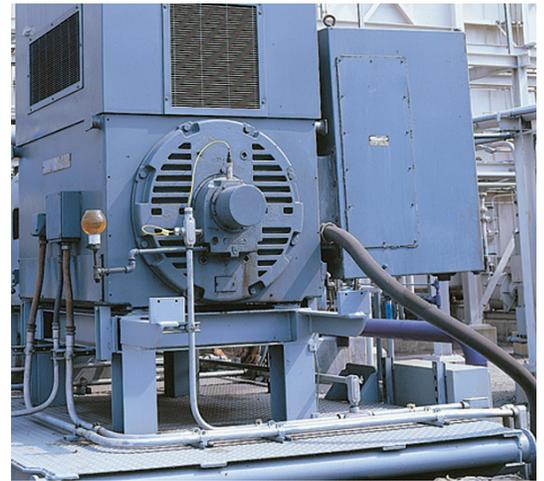
Wilcoxon® model	780A	780B	785A	786F	787F
<b>Description</b>	Compact accelerometer	Compact accelerometer	Compact side-exit accelerometer	Integral cable accelerometer	Side-exit integral cable accelerometer
<b>Sensitivity mV/g</b>	100	100	100	100	100
<b>Sensitivity tolerance</b>	± 5%	± 10%	± 10%	± 5%	± 5%
<b>Frequency response ±3 dB Hz</b>	0.4 - 14,000	0.4 - 14,000	1 - 12,000	0.5 - 13,000	0.7 - 10,000
<b>Resonance frequency kHz</b>	30	30	30	30	22
<b>Electrical noise 100 Hz</b>	4 µg/VHz*	4 µg/VHz*	6 µg/VHz	5 µg/VHz	5 µg/VHz
<b>Max temperature</b>	120° C	120° C	120° C	120° C	120° C
<b>Bias output voltage</b>	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 captive screw	1/4-28 tapped hole	1/4-28 captive screw
<b>Output connector</b>	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	integral cable	integral cable
<b>Hazardous area options</b>	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	N/A	N/A	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	N/A
<b>Additional information</b>	Tight tolerance sensor, compact size for multichannel applications	Convenient size for walkaround programs and permanent mount applications	Upward angled connector for easy cable installation in the field	Submersible to 30 ft (10 m)	Submersible to 30 ft (10 m) Optional: M6 or M8 captive mounting screw

\* typical

# High performance accelerometers

793 and 797 series sensors offer a variety of options

- General purpose sensors with additional over-voltage protection
- Dual output to measure vibration and temperature
- Radiation rated units available for monitoring in nuclear environments
- Up to 25 years of reliable product lifetime



Wilcoxon® model	793	793-10	793T-3	797	797T-1
<b>Description</b>	Premium accelerometer	Premium accelerometer with high g level	Premium dual-output vibration and 10 mV/°K temperature sensor	Premium side-exit accelerometer	Premium dual-output, side-exit vibration and 10 mV/°K temperature sensor
<b>Sensitivity mV/g</b>	100	10	100	100	100
<b>Sensitivity tolerance</b>	± 5%	± 5%	± 5%	± 5%	± 5%
<b>Frequency response ±3 dB Hz</b>	0.5 - 15,000	1 - 15,000	0.5 - 15,000	1 - 12,000	1 - 12,000
<b>Resonance frequency kHz</b>	25	25	24	26	26
<b>Electrical noise 100 Hz</b>	5 µg/√Hz	40 µg/√Hz	5 µg/√Hz	5 µg/√Hz	5 µg/√Hz
<b>Max temperature</b>	120° C	120° C	120° C	120° C	120° C
<b>Bias output voltage</b>	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 captive screw	1/4-28 captive screw
<b>Output connector</b>	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	3 pin MIL-C-5015 style	2 pin MIL-C-5015 style	3 pin MIL-C-5015 style
<b>Hazardous area options</b>	FM Class I Div 1, CSA Class I Div 1, ATEX Class 1 Zone 0, SIMTARS	ATEX Class 1 Zone 0	N/A	FM Class I Div 1, CSA Class I Div 1, ATEX Class 1 Zone 0	N/A
<b>Additional information</b>	Legacy accelerometer specified in many mission critical applications. Radiation rated units available	Useful in high g applications such as gearbox, turbine, and compressor monitoring	Vibration and temperature signal in a single housing	Side-exit legacy accelerometer specified in many mission critical applications. Radiation rated units available	Side-exit model with vibration and temperature signal in a single housing

## Low frequency accelerometers

Our sensors have been the industry standard for performance and reliability for over 60 years

- Low frequency accelerometers to monitor slow turning machinery like wind turbines and cooling towers
- Pioneered condition monitoring for industrial applications
- Miswiring protection prevents damage to the sensor if the power supply is not properly connected
- Seismic sensors measure vibration to the sub micro-g level



Wilcoxon® model	731A	786LF	787-500	797L	799LF
<b>Description</b>	Ultra quiet, ultra low frequency seismic accelerometer	Extremely low frequency accelerometer	Side-exit high output accelerometer	Premium low frequency side-exit accelerometer	Premium low frequency accelerometer
<b>Sensitivity mV/g</b>	10 V/g	100	500	500	500
<b>Sensitivity tolerance</b>	± 10%	± 5%	± 5%	± 5%	± 5%
<b>Frequency response ±3 dB Hz</b>	0.05 - 450	0.1 - 13,000	0.2 - 10,000	0.2 - 3,700	0.1 - 2,500
<b>Resonance frequency kHz</b>	750 Hz	30	22	18	18
<b>Electrical noise 100 Hz</b>	0.004 µg/VHz	3 µg/VHz	1.5 µg/VHz	0.2 µg/VHz	1 µg/VHz
<b>Max temperature</b>	65° C	120° C	120° C	120° C	120° C
<b>Bias output voltage</b>	9 VDC	13 VDC	12 VDC	10 VDC	8 VDC
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	3/8-16 tapped hole	1/4-28 tapped hole	1/4-28 captive screw	1/4-28 captive screw	1/4-28 tapped hole
<b>Output connector</b>	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style
<b>Hazardous area options</b>	N/A	N/A	CSA Class I Div 1 and Class I Div 2, ATEX Class 1 Zone 0/1, and Class I Zone 2 IECEx Class I Zone 0/1	FM Class I Div 1, CSA Class I Div 1, ATEX Class I Div 1, SIMTARS	N/A
<b>Additional information</b>	Used for seismic monitoring including earthquake detection, perimeter monitoring and structural analysis. Optional: P31 power amplifier system	Unique circuitry prevents washover distortion, a condition that can occur when both high amplitude, slow and fast frequencies are present.	Low frequency, low noise sensor for demanding low speed applications	Ultra low noise, low frequency, side-exit sensor ideal for cooling tower applications	Ultra low frequency, low noise sensor ideal for wind turbine applications

# High temperature accelerometers

Rugged design and durable components enable vibration monitoring in extremely hot plant environments

- Specialty electronics enable continuous monitoring without sensor degradation
- Separate sensor with remote amplifier for applications up to 260° C
- Exclusive FireFET® design
- Affordable options for cost-effective monitoring



Wilcoxon® model	376-CC701	HT786A	HT787A	793-6	797-6
<b>Description</b>	High temperature accelerometer and in-line charge amplifier system	High temperature accelerometer	High temperature side-exit accelerometer	High temperature, internally amplified FireFET accelerometer	High temperature, side-exit FireFET accelerometer
<b>Sensitivity mV/g</b>	100	100	100	100	100
<b>Sensitivity tolerance</b>	± 10%	± 5%	± 5%	± 10%	± 10%
<b>Frequency response ±3 dB Hz</b>	1 - 15,000	0.5 - 14,000	0.7 - 10,000	1 - 12,000	1 - 11,000
<b>Resonance frequency kHz</b>	30	30	22	20	20
<b>Electrical noise 100 Hz</b>	7 µg/√Hz	7 µg/√Hz @ 150° C	7 µg/√Hz @ 150° C	10 µg/√Hz @ 150° C	10 µg/√Hz @ 150° C
<b>Max temperature</b>	260° C	150° C	150° C	150° C	150° C
<b>Bias output voltage</b>	12 VDC	12 VDC @ 150° C	12 VDC @ 150° C	11 VDC @ 150° C	11 VDC @ 150° C
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 captive screw
<b>Output connector</b>	male BNC (CC701)	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style
<b>Hazardous area options</b>	FM Class I Div 1	N/A	N/A	N/A	N/A
<b>Additional information</b>	Charge output accelerometer can be used in high temperature environments such as steam turbine applications	Ideal for high temperature applications especially paper machine dryer sections	Side-exit sensor ideal for high temperature applications especially paper machine dryer sections	Premium high temperature sensor for the most demanding applications	Premium high temperature, side-exit sensor for the most demanding applications

# Specialty accelerometers

## Monitoring solutions for unique applications

- PiezoVelocity Transducers (PVT) output velocity signals for monitoring critical assets
- Isolated accelerometers for high EMI environments
- Triaxial sensors measure in three mutually perpendicular directions
- Low power, low voltage sensor for wireless applications



Wilcoxon® model	HV200	793V	797V	993B-7-M12	997
<b>Description</b>	Isolated accelerometer with high EMI resistance	Premium PiezoVelocity transducer	Premium side-exit PiezoVelocity transducer	Triaxial accelerometer with M12 connector	High frequency, ring type accelerometer with integral cable
<b>Sensitivity mV/g</b>	100	100 mV/ips 3.94 mV/mm/s	100 mV/ips 3.94 mV/mm/s	100 mV/axis	10
<b>Sensitivity tolerance</b>	± 5%	± 10%	± 10%	± 10%	± 10%
<b>Frequency response ±3 dB Hz</b>	0.5 - 12,000	2.5 - 7,000	1.6 - 7,000	x, y axes 2 - 7,000 z axis 2 - 10,000	0.5 - 29,000
<b>Resonance frequency kHz</b>	25	15	18	-	>45
<b>Electrical noise 100 Hz</b>	5 µg/VHz	1 µin/sec/VHz	0.8 µin/sec/VHz	2.0 µg/VHz	9 µg/VHz
<b>Max temperature</b>	120° C	120° C	120° C	120° C	125° C
<b>Bias output voltage</b>	12 VDC	10 VDC	10 VDC	12 VDC	12 VDC
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 integral screw	1/4-28 tapped hole	1/4-28 captive screw	10-32 captive screw	8-32 captive screw
<b>Output connector</b>	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	M12	integral cable
<b>Hazardous area options</b>	N/A	FM Class I Div 1, CSA Class I Div 1, ATEX Class 1 Zone 0	FM Class I Div 1, CSA Class I Div 1	CSA Class I Div 1	N/A
<b>Additional information</b>	Designed to withstand arcing between sensor base and internal electronics up to 6,000 volts.	Internally integrated to provide clear velocity signals	Side-exit internally integrated sensor to provide clear velocity signals	3 axis simultaneous monitoring from a single sensor, speeds route data collection	Compact size, hermetic case, ideal for internal gearbox monitoring

## 4-20 mA Loop Powered Sensors (LPS®)

Wilcoxon Research® 4-20 mA vibration sensors include an accelerometer and vibration transmitter combined in one rugged, industrial housing for cost-effective continuous monitoring.

- Output signal proportional to overall vibration
- RMS and peak versions available
- Optional dual output of dynamic vibration data
- 4-20 mA output for direct interface to existing PLC, DCS or SCADA networks
- Used in process control applications
- Vibration trending for basic condition monitoring applications
- Common monitored machinery: motors, fans, pumps, gearboxes, and reciprocating compressors



Wilcoxon® model	PC420	PC420DPP	PCC421	PC425	PC420ATP-05-B3223
<b>Description</b>	Loop powered sensor, 4-20 mA output	Loop powered sensor, 4-20 mA output	Side-exit LPS	Side-exit LPS with 10 mV/°K temperature sensor	Loop powered, band limited sensor
<b>Loop output options</b>	RMS, peak, true peak	Peak-to-peak (calc)	RMS, peak	RMS, peak, true peak	True peak
<b>Signal output scaling options</b>	Acceleration, velocity	Displacement	Acceleration, velocity	Acceleration, velocity	Acceleration
<b>Full scale acceleration versions</b>	5, 10, 20, 50 g	Full scale displacement value: 40 mils	5, 10, 20 g	5, 10, 20 g	5 g
<b>Full scale velocity versions</b>	0.5, 1.0, 2.0, 3.0, 5.0 ips		0.5, 1.0, 2.0, 3.0, 5.0 ips	0.5, 1.0, 2.0, 3.0, 5.0 ips	N/A
<b>Frequency range ± 10%</b>	10 Hz - 1.0 kHz	10 Hz - 1.0 kHz	10 Hz - 1.0 kHz	10 Hz - 1.0 kHz	400 Hz - 1.4 kHz
<b>Frequency range ± 3 dB</b>	Accel: 1.0 Hz - 2.0 kHz Vel: 3.5 Hz - 2.0 kHz	4.0 Hz - 2.0 kHz	Accel: 1.0 Hz - 2.0 kHz Vel: 3.5 Hz - 2.0 kHz	4.0 Hz - 2.0 kHz	300 Hz - 2.0 kHz
<b>Max temperature</b>	105° C	85° C	105° C	85° C	85° C
<b>Grounding</b>	case isolated	case isolated	case isolated	case isolated	case isolated
<b>Mounting</b>	1/4-28 tapped hole	1/4-28 tapped hole	1/4-28 captive screw	1/4-28 captive screw	1/4-28 tapped hole
<b>Output connector</b>	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style	2 pin MIL-C-5015 style or 4 pin M12 style	6 pin MIL-C-5015 style	2 pin MIL-C-5015 style
<b>Hazardous area options</b>	CSA Class I Div 1 and explosion proof, ATEX Class I Zone 0 and explosion proof	N/A	CSA Class I Div 1, ATEX Class I Zone 0	N/A	N/A
<b>Additional information</b>	Acceleration and velocity 4-20 mA signals for process control applications	Displacement 4-20 mA signal for slow speed machine monitoring	Compact size, side-exit loop powered sensor for space limited applications	Provides both 4-20 mA vibration and mV temperature signals. Integral cable units available	Used for cavitation detection and reciprocating compressor monitoring

# Intelligent Transmitter series (iT100/200)

Meggitt's iT series vibration transmitters convert dynamic sensors' output to a 4-20 mA signal proportional to overall vibration. The 4-20 mA signal interfaces directly with a PLC, DCS, or SCADA system for cost effective 24/7 condition monitoring. Pair the Intelligent Transmitter with the programmable iT Alarm for continuous alarming capability. The iT series offers flexible, DIN rail mounted units ideal for balance of plant monitoring of critical assets that currently go unmonitored.

## iT Transmitter

- Converts traditional IEPE sensor signals to 4-20 mA output in terms of acceleration, velocity or displacement
- Output RMS, peak or Meggitt's exclusive true peak signal
- English or metric units
- Custom ordered with low pass and high pass filters to suit your application
- Buffered dynamic output for extensive online system compatibility
- BNC front panel connector supports portable vibration analyzers
- **CE** approved



## iT Alarm

- Accepts input from an iT Transmitter or any 4-20 mA loop sensor: vibration, temperature, pressure, level, flow, force and speed
- Three field-programmable relays: high or low setpoints with time delay
- Front panel LED readout and push button softkeys
- Programmable time and hysteresis delay prevent false alarms
- Back panel TBUS connection eliminates external wiring between units
- **CE** approved



# Hazardous area sensors

Meggitt offers the widest selection of hazardous area rated sensors for industrial condition monitoring. A variety of certifications including FM, CSA, ATEX and IECEx offers compliance to customers worldwide. Industrial plants are divided into zones (European and IEC method) or divisions (North American method) according to the likelihood of a potentially explosive atmosphere being present.



## Intrinsically safe

### Class I Division 1 (Zone 0) options

Sensors with FM or CSA certification for use in the US and Canada, and ATEX certified for use in Europe:

- 376-CC706 - general purpose, high temp (500° F)
- 766\* - general purpose, bayonet connector
- 780A - general purpose, compact size
- 786A - general purpose
- 786A-M12 - general purpose, M12 connector
- 786-500 - broadband low frequency
- 786-500-M12 - broadband low frequency, M12 connector
- 786F - general purpose, integral cable
- 786T - general purpose, dual output temperature and vibration
- 787A - general purpose, side-exit
- 787A-M8 - general purpose, side-exit, M8 stud
- 787A-M12 - general purpose, side-exit, M12 connector
- 787-500 - broadband low frequency, side-exit
- 787-500-M12 - broadband low frequency, side-exit, M12 connector
- 793\* - general purpose
- 793L - low frequency
- 793V\* - velocity integrated
- 797\* - general purpose, side-exit
- 797L\* - low frequency, side-exit
- 797V - velocity integrated, side-exit
- 993B series\*\* - triaxial accelerometers
- PC420A - 4-20 mA output, overall acceleration
- PC420V - 4-20 mA output, overall velocity
- PC421A - 4-20 mA output, overall acceleration, side-exit
- PC421V - 4-20 mA output, overall velocity, side-exit
- PC423A - 4-20 mA output, overall acceleration, side-exit, integral cable
- PC423V - 4-20 mA output, overall velocity, side-exit, integral cable

\* Also available with SIMTARS certification for use in Australia

\*\* Only available with CSA certification for use in Canada

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### IECEx (Zone 0/1) certified sensors for use worldwide:

- 780A - general purpose, compact size
- 786A - general purpose
- 786A-M12 - general purpose, M12 connector
- 786-500 - broadband low frequency
- 786-500-M12 - broadband low frequency, M12 connector
- 786F - general purpose, integral cable
- 786T - general purpose, dual output temperature and vibration
- 787A - general purpose, side exit
- 787A-M8 - general purpose, side exit, M8 stud
- 787A-M12 - general purpose, side exit, M12 connector
- 787-500 - broadband low frequency, side exit
- 787-500-M12 - broadband low frequency, side exit, M12 connector

# Hazardous area sensors

## Non-incendive

### Class I Division 2 (Zone 2) options

Sensors with CSA certification for use in the US or Canada, and ATEX certified for use in Europe:

- 780A - general purpose, compact size
- 786A - general purpose
- 786A-M12 - general purpose, M12 connector
- 786-500 - broadband low frequency
- 786-500-M12 - broadband low frequency, M12 connector
- 786F - general purpose, integral cable
- 786T - general purpose, dual output temperature and vibration
- 787A - general purpose, side-exit
- 787A-M8 - general purpose, side-exit, M8 stud
- 787A-M12 - general purpose, side-exit, M12 connector
- 787-500 - broadband low frequency, side-exit
- 787-500-M12 - broadband low frequency, side-exit, M12 connector
- LPA100T - low power, low voltage, with temperature output

European & IEC classification	Definition of zone/division	North American classification
Zone 0 (gases) Zone 20 (dusts)	An area in which an explosive mixture is continuously present or present for long periods	Class I Division 1 (gases) Class II Division 1 (dusts)
Zone 1 (gases) Zone 21 (dusts)	An area in which an explosive mixture is likely to occur in normal operation	Class I Division 1 (gases) Class II Division 1 (dusts)
Zone 2 (gases) Zone 22 (dusts)	An area in which an explosive mixture is not likely to occur in normal operation, and if it occurs it will exist only for a short time	Class I Division 2 (gases) Class II Division 2 (dusts) Class III Division 1 (fibers) Class III Division 2 (fibers)



# Connectors and cables

Selecting the appropriate cable assembly is highly dependent on the environment in which the sensor will operate. Meggitt offers a wide variety of rugged cables and connectors to ensure data reliability.



Wilcoxon® model	1	1A	2/2F/2T	M12P	M12S	9W	20
Connector	Microdot 10-32 coaxial		BNC plug	M12		4 socket	7 pin
Description	Straight plug	Right angle	Male/ female/ twin axial	4 pin	5 socket	Threaded, weatherproof Bendix	LEMO
Max temperature	200° C	200° C	165° C	85° C	85° C	125° C	200° C
Field assembly	No	No	No	No	No	No	No
Ingress protection	50	50	50	67	67	50	50



Wilcoxon® model	6	6D2	6GD2	6GQ/GQI*	6GSL/GSLI*	6Q/6QI*	6QN/QNI*	6SL/SLI*	6W
	MIL-C-5015 style								
Connector	2 socket	2 socket	3 socket	3 socket			2 socket		
Description	Amphenol, metallic	Class I, Div 2 suitable		High temp Viton® B boot		High temp Viton® B boot	Radiation resistant, Neoprene boot	Viton® B boot	Isolated shield, molded
Max temperature	125° C	125° C	125° C	200° C	125° C	200° C	105° C	125° C	125° C
Field assembly	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No
Ingress protection	50	67	67	68	67	68	68	67	67

\* I indicates electrical isolation between shield and transducer housing



Wilcoxon® model	J3	J84	J88C	J9F	J9T2	J9T2A	J9T4A	J10
	Twisted pair, shielded							
Description	Coaxial, low noise, Teflon® jacket	4 conductor, shielded, Kevlar® reinforced, polyurethane jacket	2 conductor, coiled, polyurethane jacket	Foil shield w/ drain wire, Teflon® jacket	Tefzel® jacket, braided shield	Teflon® jacket, braided shield	Four conductor, Teflon® jacket	Enviroprene® jacket, braided shield
Max temperature	260° C	80° C	80° C	200° C	150° C	200° C	200° C	125° C
Diameter (in)	0.085	0.210	0.175	0.125	0.190	0.190	0.190	0.190
pF/ft	30	44	30	51	27	27	27	30

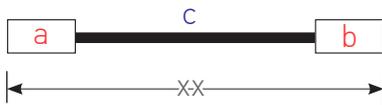
# Cable assembly ordering guide

Custom assembly identification: Ra-b-c-xx-d

R signifies cable assembly, for example: R6Q-0-J9T2A-16 [16 ft yellow Teflon® cable, 2 pin MIL-5015 IP68 connector to blunt cut].



- a** Find connector that mates to sensor
- b** Choose termination connector
- c** Select compatible cable type
- XX** Cable length (ft or m), including connectors
- d** Optional - armor (A)  
- stainless steel braid (S)  
- safety connector (SC)



## a b Connector options

Model	Description
ST	Stripped and tinned
0	Blunt cut
1	Microdot 10-32 coaxial, IP50
1A	Microdot 10-32 coaxial, right angle, IP50
2/2F/2T	BNC plug, IP50, male / female / twin-axial
M12	5 socket, molded, IP68
9W	4 socket, threaded, weatherproof, Bendix, IP50
20	LEMO, 7 pin, IP50
6	2 socket, Amphenol, metallic, IP50
6D2	2 pin, suitable for use in Class I Div 2/Zone 2, factory assembled
6GD2	3 pin, suitable for use in Class I Div 2/Zone 2, factory assembled
6GQ/6GQI*	3 socket, high temp, Viton® B boot, IP68
6GSL/6GSLI*	3 socket, Viton® B boot, IP67
6Q/6QI*	2 socket, high temp, Viton® B boot, IP68
6QA/6QAI*	2 socket, high temp, Viton® B boot, IP68
6QN/6QNI*	2 socket, radiation resistant, Neoprene boot/Tefzel® insert, IP68
6SL/6SLI*	2 socket, Viton® B boot, IP67
6W	2 socket, molded, IP67, factory assembled
6WR	2 socket, molded, right angle, IP67, factory assembled

MIL-C-5015 style

\* I indicates electrical isolation between shield and transducer housing

## c Cable options

	Model	Description	Max temp	Diameter	Compatible connectors
Coaxial	J3	Low noise, high temp, red Teflon® jacket	500° F 260° C	0.085 in 0.216 cm	1, 1A, 2, 6
	J5A	RG58, black PVC jacket	221° F 105° C	0.190 in 0.483 cm	2, 2F, 6, 6Q/6QI, 6SL/6SLI, 6W
	J93	RG316/U, high temp, clear Teflon® jacket	392° F 200° C	0.098 in 0.249 cm	1, 2F, 6
	J9	Grey PVC jacket	176° F 80° C	0.231 in 0.587 cm	2T, 6, 6SL/6SLI
Shielded, twisted pair	J9T	RG59, black Teflon® jacket	302° F 150° C	0.190 in 0.483 cm	2, 2F, 20, 6, 6Q/6QI, 6SL/6SLI
	J9T2	White Tefzel® jacket, radiation resistant	302° F 150° C	0.190 in 0.483 cm	6QN/6QNI
	J9T2A	Yellow Teflon® jacket	392° F 200° C	0.190 in 0.483 cm	2, 20, 6, 6D2, 6Q/6QI, 6SL/6SLI, 6W, 6WR
	J9T2AS	Yellow Teflon® jacket with stainless steel braid	392° F 200° C	0.210 in 0.533 cm	6SL/6SLI
	J9T2S	White Tefzel® jacket with stainless steel braid	302° F 150° C	0.210 in 0.533 cm	9W, 6QN, 6QNI, 6SL/6SLI
	J88	Black polyurethane jacket	176° F 80° C	0.210 in 0.533 cm	2, M12, 20, 6, 6Q/6QI, 6WR
	J10	Gray Enviroprene jacket	257° F 125° C	0.190 in 0.483 cm	2, M12, 20, 6, 6D2, 6Q/6QI, 6SL/6SLI, 6W, 6WR
J9F	Foil shield with drain wire, red Teflon® jacket	392° F 200° C	0.125 in 0.318 cm	6QA/6QAI, 6W, 6WR	
Shielded, multi conductor	J9T3	3 conductor, white Tefzel® jacket	302° F 150° C	0.190 in 0.483 cm	6GSL/6GSLI, 6SL/6SLI
	J9T3A	3 conductor, yellow Teflon® jacket	392° F 200° C	0.190 in 0.483 cm	2, 6GD2, 6GQ/6GQI, 6GSL/6GSLI, 6SL/6SLI
	J9T4	4 conductor, red Teflon® jacket	392° F 200° C	0.190 in 0.483 cm	2, 9W, 6GSL/6GSLI, 6SL/6SLI
	J9T4A	4 conductor, yellow Teflon® jacket	392° F 200° C	0.190 in 0.483 cm	9W
	J84	4 conductor, black polyurethane, Kevlar reinforced	176° F 80° C	0.210 in 0.533 cm	2, M12, 20, 6, 6GQ/6GQI, 9W

# Enclosures

Meggitt's enclosures are designed with the user in mind, enabling quick and safe data acquisition in the harshest industrial environments. Our cost-effective enclosures are ruggedly designed and backed by lifetime warranty.

- VibraLink® switchboxes feature Industry exclusive data ready LEDs indicating stable BOV levels, decreasing collection time
- Differential switching for greater noise immunity
- Radio frequency interference filtering
- NEMA 4/4X ratings
- Oversized enclosures for up to 48 channels with spacious interiors for easy wiring
- Models available for every application



Termination boxes



Single, dual-output, triaxial switchboxes



Online continuous monitoring

# Power and signal conditioning

Dynamic sensors requiring IEPE power utilize industry standard constant current diode (CCD) power supplies. The power supply contains a voltage source with CCD sufficient to support sensor installations using several hundred feet of cable. Options include battery or AC operated, integration, gain or triaxial configurations.



Wilcoxon® model	P702B	P703B	P704B
Channels	1	3	1
Power	{3} 9 VDC	{3} 9 VDC	{3} 9 VDC
Filter	Selectable	-	-
Amplifier gains	1, 10 or 100	-	-
Output	Acceleration or velocity	Acceleration	Acceleration

# Handheld instrumentation

## ReferenceMate® portable shaker

The REF2500 handheld shaker quickly and easily checks operation and set-up of accelerometers and velocity sensors in the field. Check acceleration and velocity measurements with no imperial-metric conversions – no extra steps and no calculations. Frequency and measurement type (peak or RMS) can be selected at the push of a button.

- 61.4 Hz for imperial measurements
- 100 Hz to simulate standard calibration conditions
- 159.2 Hz for metric measurements

ReferenceMate is designed with multiple features that ensure accurate readings and proper operation. LED indicators activate if battery levels are low or if the unit is overloaded. A built-in reference accelerometer maintains a 1 g test level for sensors weighing up to 250 grams. The cost-effective shaker enables fast verification of operation, eliminating the need for costly tests and calibrations.



## MachineryMate® vibration meters

The easy-to-use meters record, analyze and display bearing conditions and vibration values color coded to ISO 10816-3 alarm levels enabling quick and reliable machinery health monitoring. Built-in filter bands provide a clear picture of machine problems, including unbalance, misalignment and looseness. An 800 line FFT spectrum identifies complex issues.

The advanced diagnostic capabilities of the MAC800 offers enhanced vibration monitoring:

- DataMate trending software
- Strobelight attachment to view run speed
- Bluetooth headphones for auditory monitoring of bearing noise



## TempMate® IR thermometers

Increased temperature levels can often be indicative of equipment problems such as lubrication, bearing wear, or misalignment. TempMate® meters take temperature readings up to 1,832° F of hard-to-reach or moving equipment. Laser sighting enables users to safely take readings of critical machinery including pumps, motors, fans and bearings. The MAC100 has user selectable emissivity and Bluetooth capability for continuous streaming of data.

- K-type thermocouple included for contact readings
- Backlit display
- Low cost monitoring solution



# Mounting considerations

Evaluation of the mounting location of each sensor must be based on the specific machine and vibration source to be monitored. The mounting configuration depends primarily upon dynamic measurement requirements such as frequency and amplitude range. The more intimate the contact between sensor and machine, the better the ability to couple and measure high frequency signals.

## Permanent mounting: threaded stud, cementing pad

Threaded stud mounting allows the widest dynamic measurement range and is recommended for permanent monitoring systems, high frequency testing and harsh environments.

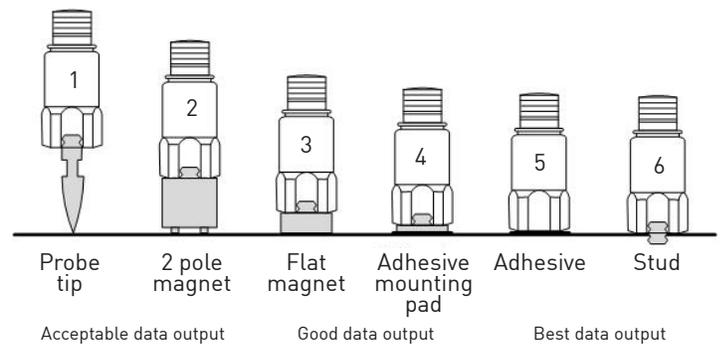
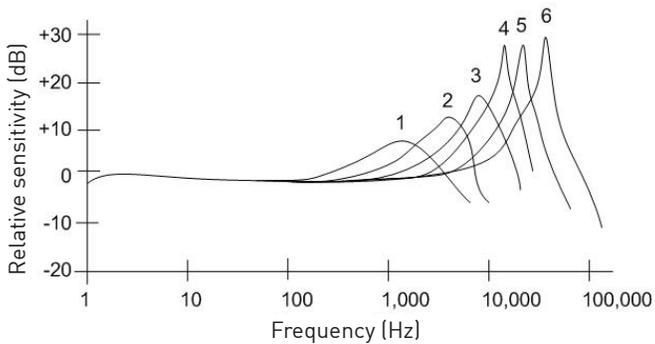
Cementing pads approach the high frequency capabilities of stud mounts when used properly, without the need of drilling into the structure. Adhesive selection is critical for long-term reliability.

## Adhesives

If the machine cannot be drilled, adhesive mounting can be used although this method will usually damage the accelerometer if removal is required. An adhesive mounting pad is the best alternative to stud mounting.

## Magnets and probetips

Magnetic mounts and probe tips can be used for walkaround monitoring programs. The frequency range of using either mounting method is dramatically reduced when compared to stud or adhesive mounts. Magnetic mounts are available with flat surfaces for flat locations or two pole configurations for curved surfaces. Probe tips should be made of steel and be no longer than six inches.



## Mounting accessories

Wilcoxon® model	Image	Description and additional models			
B1A		<b>Rare earth magnetic mounting base</b> 0.95" diameter, 40 lb force 10-32 stud, isolated			
MD series		<b>Two-pole magnetic mounting bases</b>			
		<b>MD020</b> 0.75" diameter, 20 lb force, 1/4-28 tapped hole, non-isolated	<b>MD035</b> 1.00" diameter, 35 lb force, 1/4-28 tapped hole, non-isolated	<b>MD055</b> 1.25" diameter, 55 lb force, 1/4-28 tapped hole, non-isolated	<b>MD0130</b> 2.00" diameter, 130 lb force, 1/4-28 tapped hole, non-isolated
MF series		<b>Flat magnetic mounting bases</b>			
		<b>MF015</b> 0.75" diameter, 15 lb force, 10-32 tapped hole, non-isolated	<b>MF040</b> 1.00" diameter, 40 lb force, 1/4-28 tapped hole, non-isolated	<b>MF075</b> 1.25" diameter, 75 lb force, 1/4-28 tapped hole, non-isolated	<b>MF120</b> 1.50" diameter, 120 lb force, 1/4-28 tapped hole, non-isolated
MT series		<b>Two-pole magnetic mounting bases for triaxial sensors</b>			
		<b>MT075</b> 1.50" diameter, 75 lb force, 1/4-28 tapped hole, non-isolated	<b>MT075</b> 1.50" diameter, 75 lb force, 10-32 tapped hole, non-isolated		
SF6		<b>SF6 mounting stud</b> 1/4-28 UNF both ends Stainless steel	<b>SF6M mounting stud</b> 1/4-28 UNF to M8 x 1.25 Stainless steel	<b>SF6M-1 mounting stud</b> 1/4-28 UNF to M6 x 1.00 Stainless steel	
SF8		<b>SF8 cementing pad</b> 1/4-28 integral stud 1.00" diameter Stainless steel		<b>SF8-2 cementing pad</b> Includes tapped hole and key notch for consistent axis orientation Use with 993A triaxial sensors	
		<b>SF11</b>  <b>Cementing pad</b> 1.00" diameter provides surface for sensor attachment using a B3 style magnetic mounting base			
SF21		<b>SF21 isolator mounting base</b> 1.00" hex across the flats Isolation protection up to 1,500 volts 1/4-28 to 1/4-28 integral stud		<b>SF22</b> 1.000" diameter, 1/4-28 to M8 integral stud	
				<b>SF23</b> 1.125" diameter, 1/4-28 to 1/4-28 integral stud	
				<b>SF24</b> 1.125" diameter, 1/4-28 to M8 integral stud	
TC1B		<b>Triaxial mounting cube</b> 1.00" on each side Three 1/4-28 tapped holes fit a variety of threaded stud adapter sizes such as M6, M8, 3/8 and 10-32 Additional sizes available for different sized sensors			
VERSIL406		<b>Mounting epoxy</b> Enough glue for up to 5 sensors/mounting pads Package contains both epoxy components separated by a pull tab Max temperature 150° C			

# Why Wilcoxon

**1** Meggitt Sensing Systems knows that the key to selling quality vibration monitoring sensors is to provide unbeatable reliability from our extensive product range backed by exceptional industry experience and support.  
**Employ our accelerometers in your condition monitoring program and you will see Why Wilcoxon is number one.**

## Customer support

- Fast** two-day turnaround on quotations to keep your project on schedule
- Global** network of partners to assist you with quoting, ordering, and customer service
- Dedicated** customer account representatives provide personal attention to each order
- Outstanding** applications support to ensure you get the right product for the job
- Expertise** in engineering to the PhD level and over 200 years of combined industry experience
- 98% on-time delivery** and the shortest lead times in the industry
- Guaranteed In-Stock** program promises select products ship the next business day
- Knowledge** about export compliance laws to ensure international shipments are not delayed

## Reliability

- Highest MTBF** (mean time between failure) in the industry, 25 years
- Certified** ISO 9000 Quality Management and ISO 14000 Environmental Management
- Registered** AS9100 quality management system for the demanding aerospace industry
- State of the art** manufacturing facility in Maryland, USA ensures precise control of all assembly and testing
- True hermetic** seal, backed by helium leak testing of sensors to  $1 \times 10^{-8}$  cc He/sec, compared to weak bubble tests that allow 10,000 times more leakage
- Ensured** contamination-free sensor: final weld is completed in an inert atmosphere inside a drybox
- Consistent** product performance from piezoelectric crystal stabilization, ensuring accelerometer sensitivity doesn't drift over time, <1% sensitivity drift over 10 years
- Lifetime Warranty** ensures commitment to continuous product performance

## Broad offering for one-stop-shopping

- Extensive** variety of accelerometer designs for any application
- Comprehensive** selection of 4-20 mA sensors and transmitters for Simplified Condition Based Maintenance
- Widest selection** of hazardous area certifications including FM, CSA, ATEX, IECEx; SIMTARS ratings of Class I Division 1 (Zones 0 and 1), Class I Division 2 (Zone 2), and Explosion Proof
- Complete offering** of accessories, from installation tools, cable assemblies, enclosures, and power supplies, to transmitters and alarms
- Time-saving** handheld instrumentation eliminates expensive tests
- Custom** designed products for unique applications
- Competitive** pricing on sensors, accessories, cables, and network packages
- Cutting edge** technology keeps you ahead of the curve

# Meggitt Sensing Systems

## **The world's leading provider of high performance sensing and condition monitoring solutions for extreme environments**

Meggitt Sensing Systems, a Meggitt group division, has operated through its antecedents since 1927 under the names of Endevco, Wilcoxon Research, Sensorex, ECET, Vibro-Meter, Lodge Ignition and Ferroperm Piezoceramics. Today their operations are integrated under one strategic business unit called Meggitt Sensing Systems to provide complete systems with these renowned product brands from a single supply base.

We are leaders in the aerospace, power generation, nuclear, oil and gas, industrial, laboratory measurement, automotive and medical markets: in fact anywhere where sensing and condition monitoring are deployed in difficult environments. Meggitt Sensing Systems employs a wide array of technologies, including piezoelectric, piezoresistive, capacitive, resistive, inductive, magnetic, microwave and optical, to address our customers' key challenges in high temperature, high shock, limited space and weight, biocompatibility and communications.

With our nine development and manufacturing sites located in Switzerland, France, the UK, Denmark, Germany and the USA, we have unmatched capabilities to deliver more critical sensing solutions. An extensive sales and support network

## **Monitoring and sensing solutions for high value machinery**

Our facilities in Fribourg, Switzerland, in Rugby and Basingstoke, UK, in Angoulême, France and in Londonderry, New Hampshire, were all formerly known as Vibro-Meter. These facilities specialize in ignition, sensing and condition monitoring equipment for gas and steam turbines, hydro turbines and auxiliary machines. Our facility in Basingstoke supplies integrated sensor packages and sensors for aerospace.

## **Industrial sensing and simplified condition-based maintenance**

Our facility in Germantown, Maryland, formerly known as Wilcoxon Research, specialises in highly reliable industrial vibration sensors for condition monitoring and predictive maintenance applications. The facility produces a wide range of vibration sensors for industrial, energy, process control, military and test and measurement applications.

## **Displacement sensors and inertial systems**

Our facility in Archamps, France, formerly known as Sensorex, specialises in linear and rotary displacements, inertial sensors and systems, hybrids and (micro) electronics for aerospace and industrial markets.

## **Sensing for challenging measurement applications**

Our facility in Irvine, California, formerly known as Endevco, specialises in mission-critical measurements in the aerospace, defense, automotive, industrial and medical sectors.

## **Piezoceramic components production**

Our facility in Kvistgaard, Denmark, formerly known as Ferroperm Piezoceramics, specialises in manufacturing advanced piezoelectric ceramic components and integrated piezoelectric thick film devices.



# Sensor selection chart

Wilcoxon® model	Sensitivity	Sensitivity tolerance ±	Frequency response @ ±3 dB	Resonance	Exit type/ connector	Max temp	Mounting thread	psd noise @ 100 Hz	Acceleration range	Weight grams	Haz area option
	mV/g		Hz	kHz		° C		/VHz	g peak		
<b>General purpose accelerometers</b>											
775A	100	20%	0.5 - 10k	26	top, R35	120	1/4-28	5 µg	80	45	
780A	100	5%	0.4 - 14k	30	top, R6	120	1/4-28	5 µg	80	62	Y
780B	100	10%	0.4 - 14k	30	top, R6	120	1/4-28	5 µg	80	62	
780C	100	15%	0.4 - 14k	30	top, R6	120	1/4-28	5 µg	80	62	
785A	100	10%	1.0 - 12k	30	side, R6	120	1/4-28	6 µg	80	85	
786A	100	5%	0.5 - 14k	30	top, R6	120	1/4-28	5 µg	80	90	Y
786A-M12	100	5%	0.5 - 14k	30	top, M12	120	M6	5 µg	80	90	
786F	100	5%	0.5 - 13k	30	top, integral cable	120	1/4-28	5 µg	80	90	Y
787A	100	5%	0.7 - 10k	22	side, R6	120	1/4-28	5 µg	80	145	Y
787AM8-M12	100	5%	0.7 - 10k	22	side, M12	120	M8	5 µg	80	145	
787B	100	10%	0.7 - 10k	22	side, R6	120	1/4-28	5 µg	80	145	
787F	100	5%	0.7 - 10k	22	side, integral cable	120	1/4-28	5 µg	80	145	
793	100	5%	0.5 - 15k	25	top, R6	120	1/4-28	5 µg	80	112	Y
793R - radiation resistant	100	5%	1.0 - 15k	26	top, R6	120	1/4-28	5 µg	50	110	
797	100	5%	1.0 - 12k	26	side, R6	120	1/4-28	5 µg	50	135	Y
797R - radiation resistant	100	5%	1.0 - 12k	26	side, R6	120	1/4-28	5 µg	50	135	
<b>Low frequency accelerometers</b>											
786LF	100	5%	0.1 - 13k	30	top, R6	120	1/4-28	3.0 µg	50	90	
786-500	500	5%	0.2 - 14k	30	top, R6	120	1/4-28	1.5 µg	10	90	Y
787-500	500	5%	0.2 - 10k	22	side, R6	120	1/4-28	1.5 µg	10	145	Y
793L	500	5%	0.2 - 2.3k	15	top, R6	120	1/4-28	0.2 µg	10	142	Y
797L	500	5%	0.2 - 3.7k	18	side, R6	120	1/4-28	0.2 µg	10	148	Y
799LF	500	5%	0.1 - 2.5k	18	top, R6	120	1/4-28	1.0 µg	10	205	
799M	1,000	5%	0.2 - 2.5k	18	top, R6	120	1/4-28	1.0 µg	5	205	
<b>High frequency accelerometers</b>											
712F	100	10%	3.0 - 25K	>45	side, integral cable	120	8-32	10 µg	60	35	Y
726/726T	100	5%	0.6 - 15K	32	side/top, R1	120	10-32	0.8 µg	80	30-34	
728A/728T	500	5%	1.0 - 10K	24	side/top, R1	120	10-32	0.3 µg	15	45	
732A/732T	10	5%	0.5 - 25K	60	side/top, R1	120	10-32	3.0 µg	500	13	
736/736T	100	5%	2.0 - 25K	60	side/top, R1	120	10-32	2.0 µg	50	13	
997	10	10%	0.5 - 29K	50	side, integral cable	125	8-32	9.0 µg	600	35	
<b>Triaxial accelerometers</b>											
993A	100	10%	2.0 - 2k	N/A	side, R9W	120	1/4-28	2.0 µg	50	88	
993B series	25, 50 or 100	10%	Z: 2 - 10k X,Y: 2 - 7k	N/A	top, integral cable	120	10-32	3.2, 2.0, 1.4 µg	40	134	Y

\* Due to continued research and product development, the manufacturer reserves the right to amend this specification without notice.

Wilcoxon® model	Sensitivity	Sensitivity tolerance ±	Frequency response @ ±3 dB	Resonance	Exit type/connector	Max temp	Mounting thread	psd noise @ 100 Hz	Acceleration range	Weight grams	Haz area option
			Hz	kHz		° C		/√Hz	g peak		
<b>Piezovelocity transducers</b>											
793V	100 mV/in/sec	10%	2.5 - 7k	15	top, R6	120	1/4-28	1.0 µin/sec	50 in/sec	145	Y
793VR- radiation resistant	100 mV/in/sec	10%	2.0 - 7k	15	top, R6	120	1/4-28	1.0 µin/sec	50 in/sec	133	
797V	100 mV/in/sec	10%	1.6 - 7k	18	side, R6	120	1/4-28	0.8 µin/sec	50 in/sec	148	Y
<b>High temperature accelerometers</b>											
376/CC701	100 mV/g	10%	1.0 - 12k	30	top R1/ inline, R6F	260	1/4-28	5 µg	80	90	Y
793-6	100 mV/g	10%	1.0 - 12k	20	top, R6	150	M8	5 µg	80	90	
797-6	100 mV/g	10%	1.0 - 11k	20	side, R6	150	1/4-28	5 µg	80	90	Y
HT786A	100 mV/g	5%	0.5 - 14k	30	top, R6	150	1/4-28	7 µg	80	90	
HT787A	100 mV/g	5%	0.7 - 10k	22	side, R6	150	1/4-28	7 µg	80	145	
<b>4-20 mA vibration output sensors</b>											
PC420 series acceleration, velocity RMS and peak	4-20 mA	5%	1.0 - 2k	N/A	top, R6	105	M8	N/A	5, 10, 20 g	162	Y
PC420D displacement, peak to peak	4-20 mA	5%	10 - 1k	N/A	top, R6	85	1/4-28	N/A	40 mils	162	
PCC421 acceleration, velocity RMS and peak	4-20 mA	5%	4.0 - 2k	N/A	side, R6	105	1/4-28	N/A	5, 10, 20 g	140	Y
PCC423 series acceleration, velocity RMS and peak	4-20 mA	5%	4.0 - 2k	N/A	side, integral cable	105	1/4-28	N/A	5, 10, 20 g	135 excl. cable	Y
<b>Dual output vibration (4-20 mA) and temperature sensors</b>											
PC425 series acceleration, velocity RMS and peak	4-20 mA	5%	4.0 - 2k	N/A	side, R19	85	1/4-28	N/A	5, 10, 20 g	320	
PC427 series acceleration, velocity RMS and peak	4-20 mA	5%	4.0 - 2k	N/A	side, integral cable	85	1/4-28	N/A	5, 10, 20 g	320	
<b>Dual output vibration and temperature sensors</b>											
786T	100 mV/g	5%	0.5 - 12k	30	top, R6G	120	1/4-28	5 µg	60	90	Y
793T-3	100 mV/g	5%	0.5 - 15k	24	top, R6G	120	1/4-28	5 µg	80	115	
797T-1	100 mV/g	5%	1.0 - 12k	26	side, R6G	120	1/4-28	5 µg	80	135	
797LT	100 mV/g	5%	0.2 - 3.7k	18	side, R6G	120	1/4-28	5 µg	10	160	
<b>Seismic sensors</b>											
731A	10 V/g	10%	0.05 - 500	0.75	top, R6	65	3/8-16	0.004 µg	0.05	670	
731A/P31	10 - 1,000 V/g	10%	0.05 - 500	0.75	BNC	65	3/8-16	0.004 µg	0.05	670	
731-207	10 V/g	10%	0.2 - 1.3k	2.4	top, R1	80	10-32	0.03 µg	0.05	50	
731-207R radiation resistant	10 V/g	10%	0.2 - 1.3k	2.4	top, R1	80	10-32	0.03 µg	0.05	77	
<b>Underwater accelerometers and hydrophones</b>											
746	100 mV/g	5%	1.0 - 15k	30	top, integral cable	80	10-32	0.8 µg	50	45	
754	100 mV/g	10%	2.0 - 25k	60	side, integral cable	80	Adhesive	4.0 µg	250	4	
757 biaxial	100 mV/g	10%	2.0 - 2k at 10%	30	side, integral cable	80	10-32	1.0 µg	50	110	

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**MEGGITT**  
smart engineering for  
extreme environments