



MACHINERY CONDITION MONITORING SOLUTIONS

With more than 50 years of service, Metrix is the preferred supplier of industrial vibration monitoring systems and services to many of the world's leading manufacturers and users of cooling towers, gas turbines, generators, pumps, motors, fans, reciprocating compressors, and other rotating machinery. With headquarters in Houston, Texas, we operate in more than 40 countries via factory-direct sales and service professionals, along with a strategic network of instrumentation partners.

Metrix serves customers in the oil & gas, chemical processing, power generation, wastewater and other industries where hazardous area approvals are increasingly common. Most of our products are available with North American, ATEX, and IECEx approvals, along with CE mark compliance for Europe and country-specific approvals where appropriate.



DPS (DIGITAL PROXIMITY SYSTEM)

Probe Driver, MX2033

3-Wire, Dynamic Voltage Output (mV/mm or mV/mil)



Extension Cable, MX8031

Available with and without protective armor with Triaxial Cable and VibeLock™ Connector.



Proximity Probe, MX8030

5mm and 8mm tip diameter with Triaxial Cable and VibeLock™ Connector.



Or

Transmitter, MX2034

4-20 mA



PROXIMITY ACCESSORIES



Static Calibrator, 9060

Tool that allows users to ensure the proximity probe system is working properly.



Dynamic Signal Checker, MX2040

Tool that dynamically tests the proximity probe system loop by the simulation of rotor vibration.



Probe Mounting System, 5497PM

Works with reverse mount 8mm proximity probes. Provides physical protection in an attractive package.



Heavy Duty Reverse Mount Probe Housing, 5499

Heavy duty accessory for reverse mount probes. Can withstand pressures to 1000 PSIG (6.89 MPa).



Probe Brackets, 7646

Available for all standard probe sizes.



NPT Threaded Hole Probe Holder, 9059

Available for all standard probe sizes. (3/4" (pictured) and 1/2" NPT available)

PROXIMITY ACCESSORIES (continued)



Feed Through Extension Cable, 5494
Extension cables with High Pressure Cable Seal to 150 PSI.



Weatherproof Housing
NEMA 4 / IP 65 rated enclosures for 2, 4 or 8 DPS units.



Explosionproof Housings
NEMA 4 / IP 65 rated enclosures for 2 or 4 DPS units.



Signal Cables, 9041
Bulk cable for wiring probe drivers, transmitters, monitors or signal conditioners.

SEISMIC TRANSMITTERS



Velocity Transmitter, ST5484E*
4-20 mA, loop terminals with Independent Polarity Terminal (IPT®) to prevent incorrect wiring, frequency response 2Hz to 2kHz ($\pm 3dB$).



Indicating Velocity Transmitter, ST5491E
Same as ST5484E with LCD indicator. Built-in protection against temperature shock and "ski slope" problem.



Slim-bodied Transmitter, 162VTS
Same functionality as ST5484E except it is ideal for narrow spaces.



Impact Transmitter, IT6810*
Measures mechanical looseness w/the convenience of 4-20 mA loop powered sensor technology and a 2 pin MIL-C-5015 style connector.



General Purpose Transmitter Acceleration ST6911 Velocity ST6917
Compact transmitter, 4-20 mA proportional to: Acceleration (ST6911) - Frequency response 3Hz to 10kHz ($\pm 3dB$)
Velocity (ST6917) - Frequency response 3Hz to 1kHz ($\pm 3dB$)



Impact Transmitter, IT6811*
Impact Transmitter with integral cable twisted shielded pair 20 AWG black polyurethane jacket, 1/2-14 NPT connection.



Impact Transmitter, IT6812
IT6810 with 12in (305mm) integral cable enclosed in explosion proof housing.

Seismic Accessories

Visit www.metrixvibration.com/seismic/accessories

*NOTE: Can be used in a Class I Div I, ATEX/IECEx Ex ia IIC environment.

MONITORS



Machinery Monitor, SETPOINT
Rack-based machinery protection system, designed to continuously monitor up to 56 vibration channels or 84 temperature channels in a single rack. System provides dynamic waveform data.



Machinery Monitor, DATAWATCH IX
Monitor allows you to view your data in a bar graph, trend, or as a numeric values. Its powerful, compact 1/4 DIN panel mount unit offers four (4) or eight (8) high accuracy universal inputs for data monitoring and recording.



SEISMIC SENSORS & SIGNAL CONDITIONERS



General Purpose Accelerometer, SA6200A*

Fully API 670 compliant sensor. Designed for use on a wide variety of machine types with its broad frequency response of 0.5Hz to 10kHz ($\pm 3dB$).



Underwater Accelerometer, SA6200UW*

Designed for applications that are continuously or frequently exposed to very high levels of condensing humidity on continuous submersion. Frequency response 0.3Hz to 10kHz ($\pm 3dB$).



Low Profile Accelerometer, SA6210

Uses a side-exit cable connection that allows it to be used in physically constrained locations where a top-exit cable design will not fit. Frequency response 0.2Hz to 11.5kHz ($\pm 3dB$).



High Frequency Accelerometer, SA6250*

Uses a built-in amplifier to provides a 100mV/g low-impedance, constant-current output that is compatible with vibration monitoring systems, electronic switches, and 4-20mA signal conditioners. Frequency response 0.8Hz to 15kHz ($\pm 3dB$).



Piezo Velocity Sensor, SV6300*

Piezo-Velocity Sensor provides a velocity output. Solid-state design has no moving parts to wear out and may be mounted in any axis. Frequency response 2Hz to 8kHz ($\pm 3dB$).



High Temperature Accelerometer, SA6350*

High-Temperature Accelerometer is suitable for use in temperatures up to 325°C. designed for gas turbines and other machinery with high surface temperatures where an acceleration signal is desired. Frequency response 5Hz to 10kHz ($\pm 3dB$).



High-Temperature Velocity Sensor, 5485C*

High-Temperature Velocity Sensor is suitable for use in temperatures up to 375°C. It is designed for gas turbines and other machinery with high surface temperatures where a velocity signal is desired. Frequency response 15Hz to 2kHz ($\pm 3dB$).



Velocity Signal Conditioners, 5534/5544

Accept signals from machine casing mounted velocity sensors and produce a 4-20 mA current source output proportional to the measured variable.



Accelerometer Signal Conditioners, 5535/5545

Accept signals from machine casing mounted acceleration sensors and produce a 4-20 mA current source output proportional to the measured variable.

*NOTE: Can be used in a Class I Div I, ATEX/IECEX Ex ia IIC environment.

SWITCHES



Mechanical Switch, 5550

Designed to meet all requirements in a single, affordable package. It provides vibration protection for low to medium speed machinery. Rated for Class I Div I, Class II Div 1, ATEX/IECEX Ex d. IIB + H₂.



Electronic Switch, 450

The 450 switch has the same internal electronics as the 440, except it is in an explosion-proof enclosure for CSA-approved use in Class I Div1, Class II Div 1 and Class III hazardous areas.



Electronic Switch, SW6000

Versatile vibration protection instrument with LCD display. In its standard configuration, the SW6000 is a vibration switch loaded with standard features and packaged in an industrial grade housing. CSA and ATEX rated.



Electronic Monitor, SM6100

The SM6100 is a single input vibration monitor with LCD display using external transducer. Available in velocity or displacement units. Packaged in an industrial grade housing. CSA and ATEX rated.



Electronic Switch, 440

Vibration on the 440 is monitored in RMS velocity units. Its enclosure carries a NEMA 4X rating. Rated for Class I Div I hazardous areas.



Electronic Switch, 5477B

Features two-wire hookup and solid state reliability. This makes it an ideal replacement for mechanical vibration switches when increased accuracy and repeatability are required.



Electronic Switch Family (PRO440, PRO6000)

Advanced capabilities allow these programmable switches to deliver self-contained, single channel vibration protection with one or (*optional*) two fully adjustable alarm levels and corresponding electro mechanical relays. PRO450 and PRO6000 are Class I Div 1 rated and housed in an explosion proof enclosure.

ACCESSORIES



DIN-Rail Mounted Relays, 94500-XXX

Use with 5477B



USB Cable, 100468

Use with 5477B



Electronic Module, S8372

Use with 5477B



Flange Mount Adapter, 7084-001

1/2" NPT to 3-hole, 303 SST

For additional information
feel free to contact us or visit:

www.dawcul.com

Dawcul Head Office
Number 8 Beech Court, Wokingham Road
Hurst, Reading, Berkshire RG10 0RQ
United Kingdom

T: +44 (0)118 932 0520
F: + 44 (0)118 924 1919
E: sales@dawcul.co.uk
W: www.dawcul.com