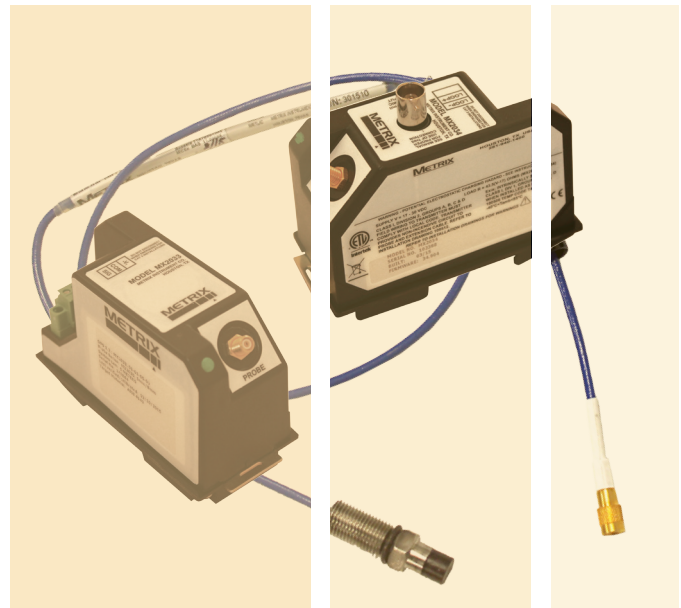




Monitor Thrust, Radial Vibration or Shaft Speed



Advanced machinery protection program
API 670 compliant
World class sales and service support

Metrix Digital Proximity System (DPS)

Works with most probe, extension cable and target material combinations

Monitor Thrust, Radial Vibration or Shaft Speed

The Metrix Digital Proximity System (DPS) allows you to **monitor thrust, radial vibration or shaft speed**. It combines the performance of a fully **API 670 compliant** eddy-current proximity measurement system with the flexibility of digital configurability. For the first time, users can configure their transducer system in the field using a custom field-generated curve, as well as, factory pre-configured calibrations for a variety of probe tip diameters, extension cable lengths, target materials and linear ranges.

Full API 670 Compliance

The DPS was designed to fully comply with API 670 for linear range, interchangeability, standard probe mechanical configurations and all other details.

Reduced Spare Parts Inventory

The DPS reduces the requirements for spare parts by allowing a single type of driver or transmitter to be field-configured for a wide range of probe types, cable lengths and target materials.

Interchangeability

The New MX8030 triaxial probes and MX8031 triaxial extension cables with VibeLock™ connectors, as well as, MX2030 probes and MX2031 extension cables, are fully interchangeable with Bently Nevada¹ (BN) 3300 and 3300XL 5mm/8mm probe systems. This compatibility provides greater choice of suppliers without the need to replace installed probes, cables and drivers.

Support for Older Probe Systems

Replacing a complete proximity transducer system can be not only expensive, but impractical when a machine must keep running and probes/cables are buried inside. Support older probe systems, cable lengths, and target materials, using a single driver or transmitter. MX2033 drivers and MX2034 transmitters allow the user to change the configuration in the field for use with virtually any Metrix or BN¹ proximity probe and cable.

Experienced global leader

Metrix is the global leader in machinery condition monitoring. Whether you need a single transmitter or a complete protection system, our experienced sales and service team will work with you to provide a solution that best meets your requirements.

Contact us to see how we can help you with your machinery protection program.

Call +1 (281) 940-1802

Email dps@metrixvibration.com

www.metrixvibration.com



The **DPS** is a 3-part system consisting of a **Probe, Extension Cable, and Probe Driver or Transmitter**



PROBE SERIES MX8030 and MX2030



MX8030 probe series consist of 5mm and 8mm tip diameter probes with VibeLock™* Connectors and Triaxial Cables. These models are available with all standard thread sizes and body configurations required in API 670 Standard. Both probes offer a full 80 mil (2mm) range, and are designed to offer full API 670-compliant performance characteristics when used with a matching MX8031 extension cable and MX2033 driver. MX8030 probes are fully interchangeable with Bently Nevada** (BN) 3300 and 3300 XL 5mm/8mm probes.

MX2030 probe series is the same as the MX8030 series except it is used with a matching MX2031 extension cable and does not include VibeLock* connectors or triaxial cables.

EXTENSION CABLE SERIES MX8031 AND MX2031



MX8031 extension cables are available with and without protective armor and feature VibeLock™* Connectors and Triaxial Cables. They are compatible with all Metrix MX8030 series 5mm & 8mm probe systems, and Bently Nevada** (BN) 3300 / 3300XL 5mm & 8mm probe systems.

MX2031 extension cables are the same as the MX8031 series except it is used with a matching MX2030 proximity probe and does not include VibeLock* connectors or triaxial cables.

MX2033 (DRIVER) or MX2034 (TRANSMITTER)





A driver or transmitter is available, depending on the required signal output format: MX2033, 3-Wire Driver and MX2034, 4-20 mA Transmitter. The models are fully compatible with a large variety of probes and cables from Metrix and other manufacturers.



MX2033 3-Wire Probe Driver: Dynamic Voltage Output (mV/μm or mV/mil)
The MX2033 signal output is compatible with industry-standard continuous vibration monitoring systems (including the SETPOINT² Machinery Protection System) and is in the format specified in API Standard 670. It uses -24Vdc excitation and provides the output signal in mV/μm, typically 7.87 mV/μm (200mV/mil).



MX2034 4-20 mA Transmitter: 4-20 milliamp Current Output (mA/mm or mA/mil)
The MX2034 signal output provides **thrust, radial vibration, or shaft speed** measurements directly to PLCs, DCSs, SCADA systems, or other instrumentation that accepts an ISA-standard 4-20 mA signal, without the use of a separate monitor system. The transmitter is powered by +24 Vdc, supplied by the current loop. The device is user-configurable to function as a radial vibration transmitter (where the 4-20 mA signal is proportional to peak-peak vibration amplitude), as an axial position transmitter (where the 4-20 mA signal is proportional to average probe gap), or as a tachometer (where the 4-20 mA signal is proportional to shaft speed). A short-circuit protected BNC connector provides convenient access to the raw vibration signal when connecting to signal analyzers, portable data collectors and test instrumentation.

| HAZARDOUS AREA APPROVALS | | |
|--|---|---|
| AREA | PROBE/CABLE | DRIVER |
| North America  | Class I, Div 1, Grps A,B,C,D -40°C to +177°C Intrinsically Safe and Non-Incendive | Class I, Div 1, Grps A,B,C,D, T4 -40°C ≤ Ta ≤ +85°C Intrinsically Safe (MX2034) |
| | | Class I, Div 2, Grps A,B,C,D, T4 -40°C ≤ Ta ≤ +85°C Non-Incendive (MX2034) |
| International ATEX/IECEX    | II 1G Ex ia IIC T3 Ga -40°C ≤ Ta ≤ +177°C Intrinsically Safe | II 1G Ex ia IIC T4 Ga -40°C ≤ Ta ≤ +85°C Intrinsically Safe |
| | II 3G Ex nA IIC T3 Gc -40°C ≤ Ta ≤ +177°C Non-Incendive | II 3G Ex nA IIC T4 Gc -40°C ≤ Ta ≤ +85°C Non-Incendive |

| MX203X SERIES COMPATIBILITY TABLE | |
|-----------------------------------|-------------------|
| Series | System Length (m) |
| 10000 & 7200 | 5 & 9 |
| 3300XL | 5 & 9 |
| 3300 NSV | 5 & 7 |
| 3000 | 15 & 20 |

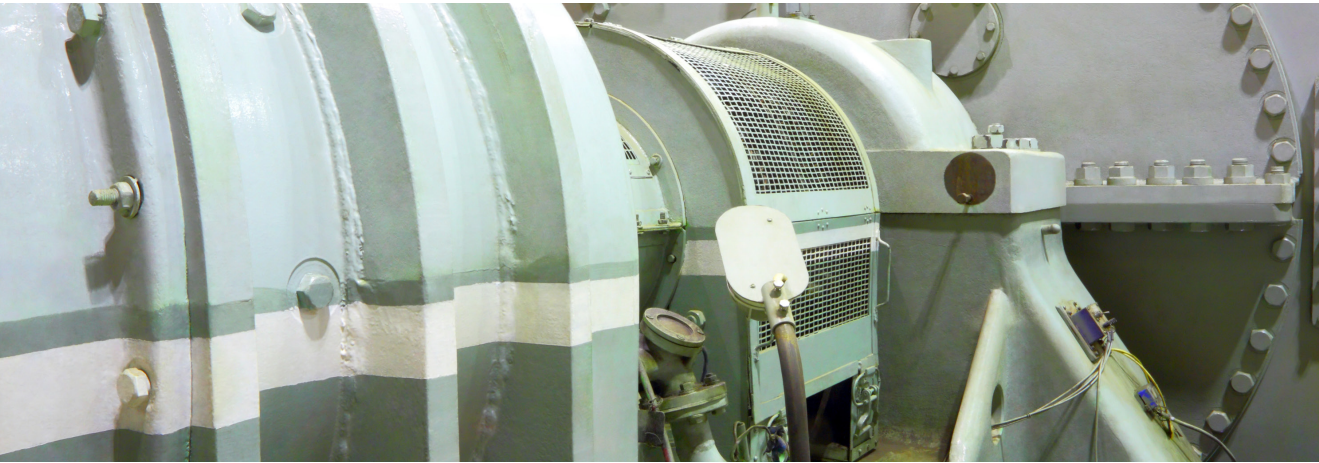
NOTES:

1. Registered trademark(s) of Bently Nevada®.
2. Registered trademark(s) of Metrix®.

Accessories

- MX8030 Probe
- MX8031 Extension cable
- MX2030 Probe
- MX2031 Extension cable
- 100527 DPS user label kit
- 9647 DIN to 4 hole flat base mounting adapter
- 5497PM Reverse Probe Mount
- 5499 Heavy Duty Proximity Probe Housing
- Static Calibrator
- MX2040 Dynamic Signal Checker

Visit our website for a full list of proximity accessories.



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 www.preditec.com

