



TRIDENT™ DM4600

WEAR
DEBRIS MONITOR

TRIDENT™ DM4600 WEAR DEBRIS MONITOR

Poseidon Systems' Trident™ DM4600 Wear Debris Monitor is a real-time, in-line fluid sensing technology for the detection of metallic wear debris and particulates in a lubrication system. By continuously monitoring wear debris generation, the device alerts users to faults in their earliest stages, allowing for lower-cost correction actions than conventional schedule based maintenance.

REAL-TIME MONITORING LEADS TO IMPROVED ASSET HEALTH MANAGEMENT

PRODUCT OVERVIEW

The DM4600 Wear Debris Monitor will detect, categorize (ferrous vs. non-ferrous), and size metals within a machinery lubrication system. The monitor will detect and measure particles with an estimated spherical diameter of 40 micron ferrous and 150 micron non-ferrous and larger. A wide range of output formats are available including particle type/size, approximate mass, and particle counts in user configurable bins.

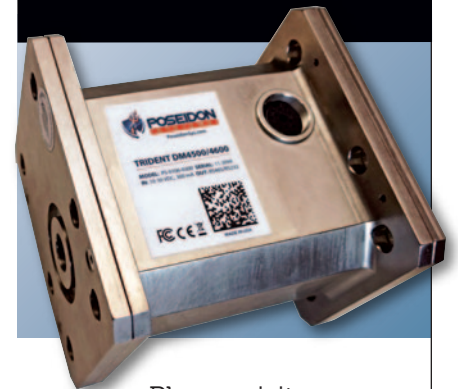
The DM4600 integrates directly with CJCTM Fine Filters. This easy-to-install design mounts directly between the pump and filter element of HDU 15/- and HDU 27/- systems. The unit ships with an install kit providing all required o-rings and extended mounting hardware.

BENEFITS

- Optimize machinery oil sample timing and maintenance intervals
- Improve asset health state awareness
- Advanced warning enables improved asset maintenance and logistics planning
- Reduce cost of unscheduled downtime

KEY FEATURES

- 40 micron ferrous & 150 micron non-ferrous debris detection ability
- Industry standard communication interface
- Integrates directly with CJCTM HDU 15/- and 27/- Fine Filters without additional hoses or plumbing
- Particle size/mass estimates
- Volumetric flow rate estimates
- Total particle count estimation



Please visit
PoseidonSys.com
to learn more.

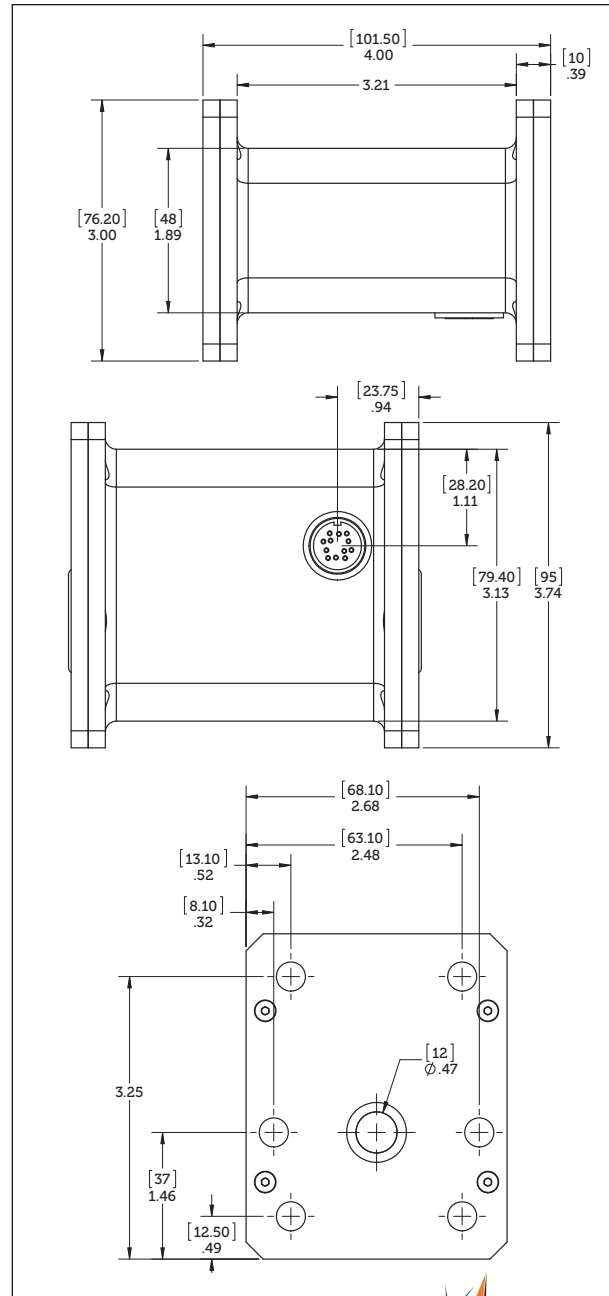
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TECHNICAL SPECIFICATIONS

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|--------------------------------|--|
| Detection Sensitivity (Debris) | 40 µm Ferrous & 150 µm Non-Ferrous Metallic Particles |
| Communications | RS485/RS232 Modbus RTU, Pulse Output |
| Oil Connection | Direct Integration with CJCTM Fine Filters (HDU 15/- and HDU 27/-) |
| Ambient Temperature | -40 to 185 °F (-40 to 85 °C) |
| Fluid Temperature | -40 to 185 °F (-40 to 85 °C) |
| Volumetric Flow Rate | 0.25 to 10 gpm (0.95 to 38 lpm) |
| Sensor Bore Diameter | 0.472 inches (12 mm) |
| Ingress Protection | IP65 |
| Power Supply | 10-30 VDC, 300 mA |
| Weight | 1.5 pounds (0.68 kg) |
| Working Pressure | 150 psi (10.3Bar) Max |



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