SPECIFICATION SHEET

MS3510 ONLINE OIL DEBRIS MONITOR

Performance

Sensor Bore 25mm (1 inch) Minimum Detectable Particle (sphere) 260µm Fe / 670µm NFe Minimum Detectable Particle (ESD)¹ 170μm Fe / 435μm NFe

10 L/min - 300 L/min (2.6 USGPM to 79 USGPM)

Flow Direction Bi-directional

Maximum Particle Detection Rate Configurable up to 100 particles/sec

¹The Equivalent Spherical Diameter (ESD) of an irregular shaped object is the diameter of a sphere of equivalent volume.

Electrical Interface

18 to 30 VDC Input Power Supply **Power Consumption** 2.4W

Communication

Ethernet 10/100 Mbit/s Serial RS-485 (Optional)

Particle Size Reporting Particle Mass Reporting **Equipment Condition Indication**

Particle Type Discrimination

MS3000 Digital Outputs

PULSE BIT State Fault No Fault

Signal Amplitude

Load Impedance Required

Modbus TCP Modbus RTU

Ferromagnetic (Fe) / Non-Ferromagnetic (NFe) Configurable Fe / NFe size bins and Fe / NFe Rate

Fe Mass and Fe Mass Rate

Configurable Alarm and Warning Limits

(Fe, NFe & Temperature)

Particle Pulse and Built-in-Test (BIT)

5 ms Square Wave Pulse \pm 2 ms

Hi-LO Logic Low Logic High Logic

Power Supply Voltage +0/-2 VDC

High (≥1 kΩ)

Environment

Oil Pressure Maximum 20 bar (300 psi) -40°C to 85°C (-40°F to 185°F) Oil Temperature **Ambient Temperature** -40°C to 70°C (-40°F to 158°F) Vibration 10-50 Hz: 3mm (displacement) 50-300 Hz: 15g (acceleration)

Fluids Compatibility Hydraulic & lubrication oils; synthetic & mineral

based; solvents & cleaning agents

Weight 1.1 kg (2.4 lbs)

Compliance

Conforms to ASTM D7917 IP66/67







Ordering Information

Sensors

MetalSCAN 3510 Sensor (Order: MS3510)

MetalSCAN 3510-RTU Sensor (Order: MS3510-RTU)

Software

MetalSCAN Manager (included with sensor)

MetalSCAN Monitor

(Order: MetalSCAN-Monitor)

Gastops Connect (Contact Gastops)

Accessories

M12, A-Coded, 8-PIN, Straight Backshell Cable, 10m (Order: Cable-3500-A-10-00)

M12, A-Coded, 8-PIN, 90deg Backshell Cable, 10m (Order: Cable-3500-A-10-90)

M12, D-Coded, 4-PIN to Ethernet RJ45 Straight Connector Cable, 10m (Order: Cable-3500-D-10-00)

M12, D-Coded, 4-PIN to Ethernet RJ45 90deg Connector Cable, 10m (Order: Cable-3500-D-10-90)

Application Installation Kits (Contact Gastops)



Mechanical Interface

