

MetalSCAN

On-Line Oil Debris Monitor MS3000 ALARM MODULE

Unequaled protection for aerospace, marine and energy equipment applications. Thousands of MetalSCAN units already installed protecting high-value, mission-critical and process-critical rotating components.

MS3000 is compact, rugged, simple to install, economical to purchase and support.

MetalSCAN MS3000 is a low cost, high reliability, on-line advanced condition monitor designed to detect the presence of both ferrous and non-ferrous metal particles that are generated from bearing or gear damage.

- Proven to provide the earliest possible reliable detection of component damage.
- Monitor damage progression and estimate remaining life.
- Avoid equipment secondary damage.
- Avoid unplanned outages.



OPERATIONS/INSTALLATION

MS3000 Alarm Module is used in conjunction with the MS3000 Sensor to provide local indication and display of equipment status. It incorporates an LCD display for particle counts, LED display of equipment condition alarm and MetalSCAN built-in test (BIT) status, and simple control panel to scroll through display features and set password protected alarm threshold. It can be implemented as an entirely stand-alone module, or interfaced externally through relay outputs, Ethernet TCP/IP port or an optional telephone modem, to announce status parameters.

FEATURES:

- On-line, real-time condition monitoring
- Panel mount installation
- SPDT Relay, Ethernet 10Base-T (TCP/IP) and optional modem outputs
- No special skills required to interpret data
- Rugged design
- Solid state, no moving parts
- Full function continuous built-in test
- Proven reliability in harsh machinery environments



MS3000 ALARM MODULE

Physical

Mounting	Panel Mount
LCD Panel	122 x 32 graphic LCD with backlight
Character Display	2 rows x 10 characters
Keypad	3 button, membrane-type
LEDs	1 Green (Power) 1 Yellow (BIT) 1 Red (Alarm)
External Interfaces	2.1 mm DC Jack (VAC wall pack) Terminal Strip (Relay Outputs) DB9 Connector (Sensor Interface) RJ45 Connector (network or optional modem interface)

Outputs

Two Relay Outputs (Alarm and BIT) Ethernet	2x SPDT, Rating: 1A@ 30VDC, 0.5A@ 33 VAC 10BASE-T TCP/IP, HTTP, SMTP and DHCP compatible (to network or optional modem)
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Input

Power	115/230 VAC universal wall pack
Digital Inputs	5VDC differential - Particle Pulse (from Sensor/J2 connector) 5VDC differential - BIT Status (from Sensor/J2 connector)

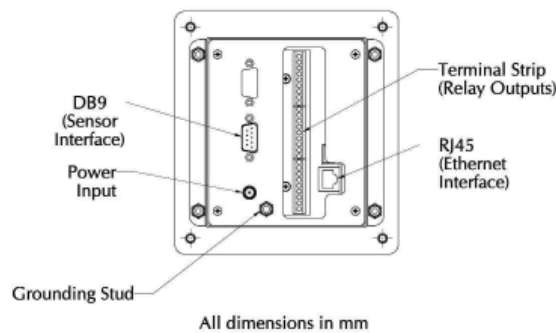
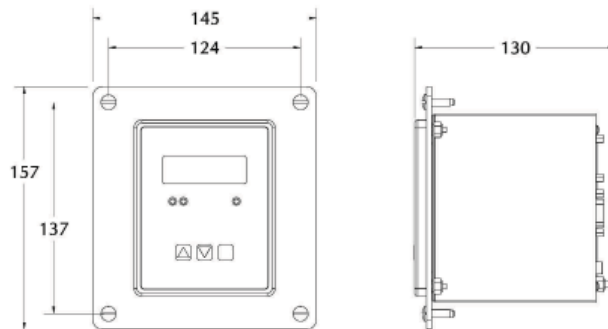
Environment

Ambient Temperature	0°C to 50°C, 5 to 95% non-condensing NEMA 4 water-resistant bezel
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Compliance:
CE (EN 61326, EN 61010)

Accessories:

1. MS3000 Alarm Module Analog modem. (order: Alarm-3002)
2. Cable kits (contact GasTOPS with specific requirements).
3. Particle Test Tool for confirming operation. (order: Tool-3001)



C00274_Rev. 0

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