ICM

In-line Contamination Monitor

The ICM automatically measures and displays particulate contamination, moisture and temperature levels in various hydraulic fluids. It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required, and where space and costs are limited.



- 8 channel contamination measurement & display
- Measures and displays ISO 4406:1999, NAS 1638, AS 4059E and ISO 11218
- Moisture and temperature sensing
- Data logging and 4000 test result memory
- Manual, automatic and remote control functionality
- Multicolour LED and remote alarm signaling
- Robust die cast aluminium construction
- LPA View software (included)
- Previous ten result viewing capability

Specification

Technology	LED Based Light Extinction Automatic Optical Particle Counter
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 1999 Standard
Analysis Range\ Formats	ISO 4406: 1999 Code 0 to 25 NAS 1638 Class 00 to 12 AS4059 Rev.E. Table 1&2 Sizes A-F: 000 to 12 ISO 11218 00-12 (Lower Limits are Test Time dependent)
Accuracy	± ½ code for 4, 6 14um(c). ± 1 code for larger sizes.
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171 (1999), on equipment certified by IFTS.
Operating Flow Rate	20 - 400 ml/minute
Viscosity Range	≤ 1000 cSt
Fluid Temperature	–25 to +80 °C *Pressure limited
Pressure Max	400 barg. *Temperature limited * For high frequency pressure pulse applications contact MP Filtri Ltd
Test Time	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard
Moisture Sensing	% RH (Relative Humidity) ±3%

Temperature Measurement	±3°C
Flow rate measurement	Indication only
Data Storage	4000 tests.
Comms Port	RS485, RS232, MODBUS, CANBUS
Ambient Temperature min/max	-25°C to 80°C non K version -25°C to 55°C K version
Environmental Protection	IP 65/67 versatile IK04 Impact Protection
Weight	1.15kg
Electrical Supply	Voltage 9-36V DC
Supply Current	12V 24V 36V Basic Unit 70mA 40mA 30mA With -K (Keypad) 150mA 80mA 60mA
Power Consumption	<2.2W
Outer Casing Finishes	Polyurethane BS X34B. Colour BS381-638 (Dark Sea Grey) **Approval:** BS2X34A & BS2X34B, MM0114 & SP-J-513-083 T. II Cl. A **Performance:** MIL-PRF-85285
Wetted parts	M - C46400 Cu alloy, 316 stainless steel, viton, FR4, sapphire. N - 316 stainless steel, viton, sapphire. S - 316 stainless steel, perfluoro elastomer, sapphire, EPDM.