AZ2 - Atex Zone 2, Cat 3G, Fluid Contamination Monitors

11/2016 - rev. 00

ICM AZ2 cable wiring details

MP Filtri do not supply an ATEX approved cable with the ICM AZ2 products as customers may run such cables through varying ATEX zones. For this reason, we supply the diagrams which allow wiring to be done on site, providing a greater degree of flexibility for installation.

Water and Temperature Sensing

The "W" option indicates water content as a percentage of saturation and oil temperature in degrees centigrade.

100% RH corresponds to the point at which free water can exist in the fluid. i.e. the fluid is no longer able to hold the water in a dissolved solution

The sensor provides early indication of costly failure due to free water, including but not exclusive to;

- Corrosion
- Metal surface fatigue e.g. bearing failure
- Reduced lubrication & load carrying characteristics
- * N.B. W option is not available on N and S versions Fluid Compatability

Can operate across a number of fluid types.

The fluid compatability option meets the needs of most major hydraulic markets.

- M = Synthetic, petroleum & mineral based fluids.
- N = Subsea Offshore and selected water based fluids.
- S = Phosphate Ester & Aggressive fluids



Technical data

Technology	LED Based Light Extinction Automatic Optical Contamination Monitor
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 1999 Standard
Analysis range	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	$\pm \frac{1}{2}$ 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, on equipment certified by I.F.T.S. ISO 11943
Operating Flow Rate	20 - 400 ml/minute
Viscosity range	≤ 1000 cSt
Fluid temperature	From -25°C to +80°C
Pressure Max	400 bar (For high frequency pressure pulse and out range temperature applications contact MP Filtri)
Pressure Max Test Time	pulse and out range temperature
	pulse and out range temperature applications contact MP Filtri) Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable
Test Time	pulse and out range temperature applications contact MP Filtri) Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard
Test Time Moisture Sensing	pulse and out range temperature applications contact MP Filtri) Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard % RH (Relative Humidity) ±3%

Communication options	RS485, RS232, MODBUS, CANBUS as standard
Relays	Two solid state relays fitted to "R" version for output to alarm circuits
Ambient Temperature min/max	-25°C to +80°C
Environmental Protection	IP 66
Weight /Dimensions	10.5 kg, Height 260 mm., Width 185 mm., Width 130 mm. (w/o connector fitted)
Electrical Supply	Voltage 9-36V DC
Current Supply	12V - 150mA, 24V - 80mA, 36V - 60mA
Power consumption	<2.2W
Outer Casing Finish	Stainless Steel
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.
Software	LPA View software (included)
Atex classification	CE 😥 II 3 G EX nR IIB T5 GC IP66

Ordering information

