CML2 – Compact Twin Laser Contamination Monitor

CML2

The CML is a portable, accurate instrument-suitable for 'on-site' applications. It can automatically measure and display particulate contamination, moisture and temperature levels in various hydraulic fluids.

Features & Benefits

✦ Compact
✦ Super lightweight
✦ Mains Operated/battery (if fitted)
✦ Full Calibration based on ISO011171
✦ Measures and displays the following international standard formats; ISO 4406, NAS 1638, AS 4059E and ISO 11218
✦ Data logging and 600 test result memory
✦ Manual and remote control flexibility
✦ Full accessories kit included

Technical data

Technology	Twin laser and twin optical diode detectors Based Light Extinction Automatic Optical Contamination Monitor
Particle Sizing	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 Standard
Analysis range	ISO 4406 Code 8 to 24, NAS 1638 Class 2 to 12, AS4059 Rev.E. Table 1 Size Codes 2-12 AS4059 rev E, Table 2 Size Codes, A:000 to 12, B:00 to 12, C:00 to 12, D:2 to 12, E: 4 to 12,F: 7 to 12
Accuracy	Better than 3% typical
Calibration	Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171, on equipment certified by I.F.T.S. To ISO 11943
Viscosity range	Up to 400 cst
Fluid temperature	From +5°C to +80°C
Pressure Max	400 bar (gauge) - minimum 2 bar (gauge) required
Sample Volume/Test time	8 ml. (short): 2:50, 15 ml. (normal): 5:00, 30 ml. (dynamic): 10:00 24 ml. (bottle sampler): 8:00, 15 ml. (continuous): 5:00
Moisture Sensing	% RH (Relative Humidity) ±3%
Temperature Measurement	±3°C
Data Storage	600 test
Communication options	RS232 9 pin D plug
Ambient Temperature min/max	-10°C to +60°C
Environmental Protection	IP51 (lid open)
Weight /Dimensions	4.75 kg, Height 152 mm., Depth 295 mm., Width 340 mm.
Electrical Supply	Voltage 9-36V DC
Power	Internal rechargeable battery (series 41) or external 12V DC power supply (series 40)
Outer Casing Finish	Injection Molded HPX® high performance resin

Ordering information

	1	2	3	4	5
Example:	CML2	M	S	X	41

1 - Version

CML2	Without moisture and temp sensor
CML2W	With moisture and temp sensor

2 - Fluid compatibility

M	Mineral oil
N	Subsea fluids and water based fluids[1]
S	Phosphate ester and aggressive fluids[1]

3 - Options

S	Standard unit

4 - Options bottle sampler

X	Without bottle sampling

5 - Series

41	With display and push buttons, with internal rechargeable battery

[1] N and S version, moisture sensor (W) not available