

# 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 ISO11171
- ◆ 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

<b>Technology</b>	Twin laser and twin optical diode detectors Based Light Extinction Automatic Optical Contamination Monitor
<b>Particle Sizing</b>	>4,6,14,21,25,38,50,70 µm(c) to ISO 4406 Standard
<b>Analysis range</b>	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
<b>Accuracy</b>	Better than 3% typical
<b>Calibration</b>	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
<b>Viscosity range</b>	Up to 400 cst
<b>Fluid temperature</b>	From +5°C to +80°C
<b>Pressure Max</b>	400 bar (gauge) - minimum 2 bar (gauge) required
<b>Sample Volume/Test time</b>	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
<b>Moisture Sensing</b>	% RH (Relative Humidity) ±3%
<b>Temperature Measurement</b>	±3°C
<b>Data Storage</b>	600 test
<b>Communication options</b>	RS232 9 pin D plug
<b>Ambient Temperature min/max</b>	-10°C to +60°C
<b>Environmental Protection</b>	IP51 (lid open)
<b>Weight /Dimensions</b>	4.75 kg, Height 152 mm., Depth 295 mm., Width 340 mm.
<b>Electrical Supply</b>	Voltage 9-36V DC
<b>Power</b>	Internal rechargeable battery (series 41) or external 12V DC power supply (series 40)
<b>Outer Casing Finish</b>	Injection Molded HPX&reg; high performance resin

## Ordering information

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

### 1 - Version

<b>CML2</b>	Without moisture and temp sensor
<b>CML2W</b>	With moisture and temp sensor

### 2 - Fluid compatibility

<b>M</b>	Mineral oil
<b>N</b>	Subsea fluids and water based fluids <sup>(1)</sup>
<b>S</b>	Phosphate ester and aggressive fluids <sup>(1)</sup>

### 3 - Options

<b>S</b>	Standard unit
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### 5 - Series

<b>41</b>	With display and push buttons, with internal rechargeable battery
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### 4 - Options bottle sampler

<b>X</b>	Without bottle sampling
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