

## 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<br>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 |
|----------|---------------|

### 5 - Series

|           |   |
|-----------|---|
| <b>41</b> | With display and push buttons, with internal rechargeable battery |
|-----------|---|

### 4 - Options bottle sampler

|          |                         |
|----------|-------------------------|
| <b>X</b> | Without bottle sampling |
|----------|-------------------------|

<sup>(1)</sup> **N** and **S** version, moisture sensor (W) not available