

# THE ESSENTIAL TOOL FOR MOBILE SERVICE ENGINEERS

PORTABLE  
CONTAMINATION  
MONITOR

## CML3



PASSION  PERFORM



# CML3

A compact and portable contamination monitor that delivers a fast, accurate assessment of contamination in the field and is the perfect solution for the mobile, construction and plant hire sectors.

Easy to master, the CML3 features cutting-edge contamination control technology and is ideal for anyone wishing to protect their critical systems.

The CML3 is an essential tool for measuring contamination in pressurised systems and can reduce costs and boost system longevity as part of a contamination control strategy.

## FIVE KEY REASONS

### CML3 WILL TRANSFORM YOUR CONTAMINATION CONTROL STRATEGY



#### PORTABILITY

Compact and light.  
Work all day on a single battery charge.



#### SIMPLICITY

Straightforward enough for anyone to use.  
On-screen prompts - no formal training required.



#### INTUITIVE

Full colour touchscreen interface.  
Simple software for sophisticated results.



#### VALUE

Exceptional performance at an affordable price



#### ACCURACY

LED technology.  
 $\pm 1$  code

#### Simple and intuitive

Easy to master with no need for a laptop.

#### Connectivity

Integrated USB C port.

#### Long-life battery

Work all day on a single charge.



**Perfect for mobile engineers**  
Compact, durable and highly portable, the CML3 delivers outstanding accuracy for operators working out in the field.

**Memory capacity**  
Store up to 4000 results.

**High-pressure sampling**  
Up to 420 bar (6091 PSI).

**Rugged build quality**  
Durable co-polymer case; internal steel cell.

**High-resolution**  
7" full-colour touchscreen.

**Instant results**  
On screen and downloadable via USB.

**As tough as you need**  
IP65/IP54 rating for enhanced protection.

**Compact and portable**  
Easy to store and carry at just 14" (35cm) wide.

CML3  
ISO 4406  
17/15/14

µm(φ)	/100ml
>4	101919
>6	31293
>14	9540
>21	3808
>25	1396
>38	173
>50	91
>70	15

FLOW CONTROL  
WASTE  
2-420 Bar

Manual Flush

CML3

Start

# EASY AS 1-2-3

Using the CML3 is as easy as 1-2-3 with just three stages required to take you from connecting up your portable contamination monitor to the oil sample and then accessing real-time results through to long-term trend analysis and proactive maintenance.



**1**

## CONNECT YOUR OIL / HYDRAULIC FLUIDS

The first step is simply to connect the CML3 to an Online M16 test point - pressure range 2-420 bar (29-6091 psi)

Easy-fit standard hydraulic connections maintain high environmental protection ratings.



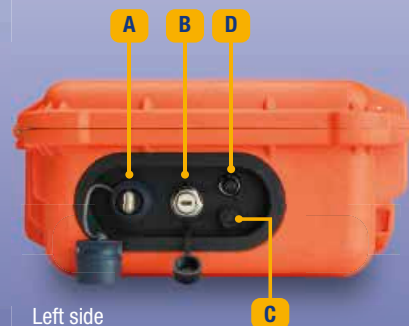
Pressure test point and waste outlet in use

### Electrics

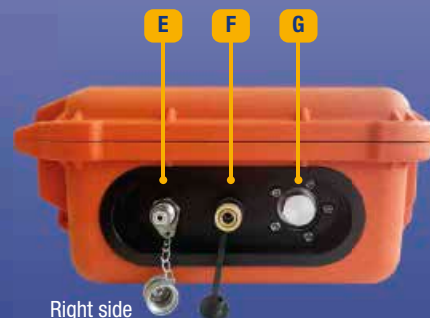
- A:** USB data stick download port
- B:** USB C PC connection port
- C:** DC charging port
- D:** Power on/off

### Hydraulics

- E:** High-pressure M16x2 test point
- F:** Waste outlet
- G:** Flow Control Valve



Left side



Right side

## EASY TO USE INTERFACE



Simple yet sophisticated software with a highly-responsive touch-screen that's designed to deliver bright visuals for outside working in sunny conditions, the CML3 features an intuitive home screen enabling you to view all your key performance information at a glance.

The CML3 can be mastered without the need for formal training and enables operators to begin measuring the condition of hydraulic oils in a matter of minutes.

The 7" high-resolution touchscreen display delivers fast, accurate results in a wide variety of reporting standards. You can also set languages, alarms and tolerance limits at the tap of the screen.

# 2

## ACCESS REAL-TIME ONBOARD RESULTS

The CML3 shows real time results on its high-resolution display. Designed for simplicity the software allows new users to get up and running in minutes without the need for formal training. You can also print a hard copy to the optional bluetooth printer



Results and printer



Our complementary online video training takes you through each step of taking a pressurised sample, as well as guiding you through every feature of MP Filtri's award-winning CMP analysis software.



# 3

## CONNECT TO CMP VIEW FOR TREND ANALYSIS

Results can be downloaded onto a USB Data Stick and transferred to a PC, or you can connect directly to the computer via a USB C connection. CMP View software enables operators to analyse data over time, opening up the potential for long-term trend monitoring and preventative monitoring strategies.

Created in-house especially for MP Filtri's range of contamination monitors, the award-winning CMP View is the most advanced software of its type in the industry.

Results and analysis can be viewed at-a-glance on a single screen in a variety of different graphical formats - tracking not just trends in particle contamination but also relative humidity, as well as temperature levels.



Compatible with  
**CMP View**

# THE PERFECT PORTABLE CONTAMINATION MONITOR

**Rugged and robust, the CML3 thrives in the most challenging working conditions.**

## EFFECTIVE HYDRAULIC HEALTHCHECK

Quickly identify levels of contamination in systems, the CML3 is an ideal tool for operators who need to ensure their hydraulic systems are always functional.

## BOOSTING YOUR BUSINESS

Featuring predictive maintenance technology, the CML3 flags up potential problems before they impact on performance. This delivers such key benefits to your business as: reduced downtime, lower operating and service costs, and longer lifespans of machinery.

## IDEAL FOR WORKING IN THE FIELD

Compact and portable, CML3 is ideal in the field, while a long-life battery enables operators to work all day without the need for recharging.



### Mobile

Portable and precise, the CML3 is ideal for applications where accuracy is vital even in challenging and variable conditions.



### Construction

Keeps your fleet and key operational machines at peak performance without the risk of unplanned downtime.



### Industrial

Keeps production lines working at full capacity – ensuring the best in performance and productivity.

# CML3 SPECIFICATION



Technology	High precision LED light extinction automatic optical contamination monitor
Particle Sizing	>4, >6, >14, >21, >25, >38, >50, >70 $\mu\text{m}_{(c)}$
Reporting Standards	ISO 4406, ISO 11218 NAS 1638 AS4059 Rev G, Table 1 AS4059 Rev G, Table 2 GBT 14039 GJB 420 B GOST 17216
Accuracy	$\pm 1$ code
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
Viscosity Range	Up to 400 cSt
Fluid Temperature	<b>Minimum:</b> +5 °C (+41 °F) <b>Maximum:</b> +80 °C (+176 °F)
Ambient Temperature	<b>Minimum:</b> -10 °C (+14 °F) <b>Maximum:</b> +60 °C (+140 °F)
Operating Pressure	<b>Minimum</b> 2 bar (29 PSI) <b>Maximum</b> 420 bar (6091 PSI)
Moisture Sensing	% RH (Relative Humidity) $\pm 3\%$
Temperature Measurement	$\pm 3\%$
Data Storage	Up to 4000 tests
Environmental Protection	<b>IP65</b> (Lid closed) <b>IP54</b> (Lid open)
Power	Lithium-Ion rechargeable battery
Battery Life	8 hrs approx
Weight (unit only)	7.7 kg (17 lbs) - with accessories: 10 kg (22 lbs)
Product Dimensions	<b>Width:</b> 352 mm / 13.8" <b>Height:</b> 149 mm / 5.8" (not including handle) <b>Depth:</b> 297 mm / 11.7"

## KEY INDUSTRY SECTORS



### Renewable energy

Minimises unplanned downtime, dramatically reducing operational and maintenance costs.



### Plant hire

Delivers peace of mind after servicing and after the vehicle is rented to customers.



### Injection moulding

Ideal for precision tooling, injection moulding, presses and power packs - supports a wide range of industries.

# WORLDWIDE NETWORK

CANADA ♦ CHINA ♦ FRANCE ♦ GERMANY ♦ INDIA ♦ SINGAPORE  
UNITED ARAB EMIRATES ♦ UNITED KINGDOM ♦ USA



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MF002000202  
EN - 2024.10