ANY SYSTEM ANY TIME ANYWHERE

PORTABLE CONTAMINATION MONITOR

CML4







ACCURACY

LED technology.

 \pm 1/2 code for 4, 6, 14µm_(c). \pm 1 code for larger sizes.



EASY AS 1-2-3

Using the CML4 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.





EASY TO USE

INTERFACE

Suction connection and waste outlet in use

CONNECT YOUR OIL / HYDRAULIC FLUIDS

The first step is simply to connect the CML4 to an Online M16 test point (pressure range 2-420 bar / 29-6091 psi) or to the applications reservoir (zero pressure). The CML4 features a self-priming metering pump which enables analysis of unpressurised systems. Easy-fit standard hydraulic connections maintain high environmental protection ratings.

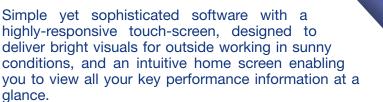
Electrics

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

Hydraulics

- Pressure connection port
- E Suction connection port
- Waste outlet





glance. The CML4 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.



Right side



HAND-HELD BLUETOOTH PRINTER

ACCESS REAL-TIME

ONBOARD RESULTS

Should you need to output a physical analysis report there is an option to use this hand-held printer as part of the analysis process for instant hard copy results.

This lightweight and compact unit (just 185 x 120 x 50mm) can be easily connected to the CML4 via Bluetooth. It offers high-speed, low-noise, black and white printing using thermal printing technology with a print width of 48mm onto a 15mm core paper roll. This portable printer comes equipped with a large capacity rechargeable lithium battery to guarantee power for extended working in the field.

The CML4 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.



Intuitive bespoke software system



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.





THE PERFECT PORTABLE CONTAMINATION MONITOR

Rugged and robust, the CML4 thrives in the most challenging working conditions.

Compact and portable, it's ideal in the field, while a long-life battery enables the operator to work all day without the need for recharging.

Effective hydraulic healthcheck

Quickly identify levels of contamination in systems, the CML4 is an ideal tool for operators who need to ensure their hydraulic systems are always functional.

Any system, anytime, anywhere

The inclusion of an in-built, self-priming pump means it can analyse particle contamination in both pressurised and unpressurised systems, making it an ideal tool for service engineers.

Boosting your business

Featuring predictive maintenance technology, the CML4 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.

KEY INDUSTRY SECTORS



Mobile

Portable and precise, the CML4 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.



(A)) MPFILTRI

Industrial

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



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.

CML4 SPECIFICATION



Technology	High precision LED light extinction automatic optical contamination monitor	
Particle Sizing	>4, >6, >14, >21, >25, >38, >50, >70 μm _(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 1/2 code for 4, 6, 14 $\mu m_{(C)} \pm$ 1 code for larger sizes	
Calibration	Calibrated with ISOMTD in accordance with ISO 21018 - Part 1 and Part 4	
Viscosity Range	Up to 400cSt	
Fluid Temperature	Minimum: +5°C / +41°F Maximum: +80°C / +176°F	
Ambient Temperature	Minimum: -10°C / +14°F Maximum: +60°C / +140°F	
Operating Pressure	Offline: Maximum 2 bar / 29 PSI Online: Maximum 420 bar / 6091 PSI	
Moisture Sensing	% RH (Relative Humidity) ±3%	
Temperature Measurement	±3%	
Data Storage	Up to 4000 tests	
Environmental Protection	IP65 (Lid closed) IP54 (Lid open)	
Power	Lithium-lon rechargeable battery	
Battery Life	8 hrs approx	
Weight (unit only)	8.5 kg / 18.5 lbs	
Product Dimensions	Width: 352 mm / 13.8" Height: 149 mm / 5.8" (not including handle) Depth: 297 mm / 11.7"	

Designation & Ordering code

COMPACT PORTABI	LE CONTAMINATION MONITOR
Series	Configuration example: CML4 W 0 M 00 1
CML4 Compact portable contamination monitor	_
Moisture Sensor	
W With moisture and temperature sensor	_
Design Reference	
0 Standard option	_
Fluid Compatibility	
M Mineral oil and synthetic fluids	_
Design Reference	
00 Standard option with full accessory kit and carry bag	
Country Plug Type	
1 UK	
2 US	
3 EU	
4 CN/AUS	_

WORLDWIDE NETWORK

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PASSION TO PERFORM

