

# THE ULTIMATE TOOL FOR CONTAMINATION ANALYSIS

**INLINE  
CONTAMINATION  
MONITOR**

## ICM



  
**WiFi Enabled**

**PASSION TO PERFORM**



# ICM 2.0 / 4.0

## 24/7 REAL-TIME MONITORING & CRITICAL EARLY WARNING SYSTEM

An invaluable tool in the fight against particle contamination, MP Filtri's In-line Contamination Monitors ICM provides a wealth of key information on the cleanliness of hydraulic systems - wherever you are in the world.

The ICM 2.0 and 4.0 device automatically measures and displays contamination, moisture, and temperature levels in hydraulic fluids. It can be mounted directly where ongoing measurement or analysis is required, and where space and costs are limited.

The ICM 4.0 also offers all the benefits of Wifi connectivity.



Industry 4.0  
**READY**



WiFi  
Enabled\*  
\* ICM 4.0 only

### Large storage capacity

Store up to 4000 tests on internal memory

### Robust and durable

Die-cast aluminium body  
IP 65 / 67 protection

### Results at-a-glance

Simple, straightforward interface with key results clear and easy to find

### Predictive maintenance technology

Identifying risks before they impact performance

## SIX REASONS

### ICM 2.0 / 4.0 SETS NEW STANDARDS



#### ACCURACY

The ICM is accurate to  $\pm 1/2$  code for 4, 6, 14 $\mu\text{m}_{(C)}$ . Full 8-channel measurement.



#### INFORMATION

Measures particle contamination, moisture levels and temperature levels in hydraulic fluids.



#### CRITICAL EARLY-WARNING SYSTEM

Real-time monitoring and predictive maintenance. Flags up issues before they impact performance.



#### EFFICIENCY

Reduces costs and downtime, protects machinery and rapidly pays for itself.



#### CONNECTIVITY

ICM 4.0 device delivers Wifi connection for instant access to machine performance.



#### EASY TO USE

Sophisticated yet simple to use software that makes performance analysis easy



**Data upload**

Rugged USB connection for downloading test results

**Live real-time monitoring**

Instant hydraulic health checks

**Detailed, accurate results**

Exceptional repeatability and full 8-channel measurement

**User-friendly**

Multi-coloured alert indicators for rapid issue recognition

**Outstanding connectivity**

Utilising the latest WiFi technology via the ICM 4.0

**Space efficient design**

Perfect for confined environments



**Connections available**

Wifi, Modbus, Canbus, 4-20mA signal and switched alarm relay outputs.

# THE MOST EFFECTIVE ANALYSIS SOFTWARE IN THE INDUSTRY

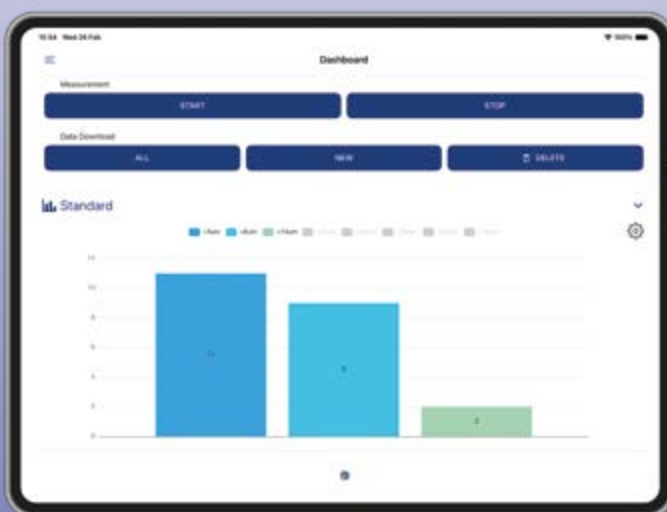
**If you can't measure particle contamination, you can't manage it.**

Between 70 and 80 per cent of hydraulic system failures are caused by particle build-up, so knowing the precise condition of each system can give operators a critical early warning of the risks of breakdown; enable preventive maintenance; and dramatically reduce service and maintenance costs, as well as unplanned downtime.

MP Filtri's CMP View software delivers real-time contamination monitoring and trend monitoring so customers can act to protect systems long before major damage occurs.

Operators can monitor systems via PC and remotely on mobile devices thanks to the new app MP Filtri has developed to deliver continuous access to key contamination data.

## 1 CMP VIEW MOBILE APP



## SIMPLE INSTALLATION

Getting started is easy with our step-by-step installation Guide.

To get the guide please go to [www.mpfiltri.com](http://www.mpfiltri.com) or scan the QR code below and follow the link.

The guide provides a detailed walkthrough that's ideal to get you up and running quickly and easily.

Available for Android and Apple devices, the new CMP View mobile app enables quick and easy connection to ICM devices and provides remote access to the company's award-winning analysis software.

The app, which has been specially designed for mobile phones and tablet devices, delivers real-time contamination monitoring reports as well as long-term trend monitoring.



Scan or click me!



## OUTSTANDING ACCURACY UNRIVALLED REPEATABILITY

Multi-channel measurement, high accuracy and outstanding repeatability means that at any moment you can gather a precise snapshot of the health of your hydraulic fluid, preventing damage, downtime and high maintenance costs. You can also customise your targets and get colour-coded warnings on the main screen. Wherever you are working and whatever standards you are using we've got you covered.



## CMP VIEW SOFTWARE

Winner of the prestigious Plantworx innovation award, MP Filtri's CMP View software is simple to master yet offers sophisticated analysis of contamination.

Providing a database of test records, with many in-built analysis features, CMP View delivers such benefits as: simple visual analysis, detailed report generation and file sharing.

MP Filtri also offers comprehensive online training and customer support with detailed walkthrough videos and a visual quick-start guide to get you up and running in minutes.



- A revolutionary new graphical interface displaying all key results visually on a single screen.
- Real-time analysis
- Ability to view short and long-term contamination trends
- Displays results in a wide variety of international standards
- Easy learning curve with no need for formal tuition
- Tailor results to individual customer needs
- Store, analyse and compare thousands of test reports
- The most advanced software in its class
- Developed by MP Filtri specifically for its CMP product range
- Free online training tools and support



# TAKE YOUR ICM EXPERIENCE TO THE NEXT LEVEL

Wifi connectivity ensures you can access and share real-time data and analysis instantly via a number of different platforms.



## WEB BROWSER READOUTS

Generated from the unique IP address of each ICM 4.0.



## CLOUD BASED SYSTEMS

Capability to connect to customers own cloud-based systems. User access to all ICMs on the same network, including remotely via VPN.



## CONNECTIVITY

Modbus, Canbus, 4-20 mA signal and Switched alarm relay outputs (WiFi replaces the need for the remote connector).



## KEY INDUSTRY SECTORS



### Mobile

Portable and precise, the ICM 2.0 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.

# ICM Specification



Technology	High precision LED light extinction automatic optical contamination monitor	
Particle Sizing	>4, >6, >14, >21, >25, >38, >50, >70 $\mu\text{m}_{(c)}$	
Analysis Range	ISO 4406 Codes 8 to 24 NAS 1638 Class 2 to 12 AS4059/ISO 11218, Table 1 Size Codes 2-12 AS4059/ISO 11218, Table 2 Size Codes, A: 000 TO 12, B: 00 to 12, C: 00 to 12, D: 2 to 12, E: 4-12, F: 7 to 12 GBT14039 Codes 8-24 GJB420B Size Codes, A: 000 to 12, B: 00 to 12, C: 00 to 12, D: 2 to 12, E: 4-12, F: 7 to 12 GOST 17216 ISO 11218	
Accuracy	$\pm 1/2$ code for 4, 6, 14 $\mu\text{m}_{(c)}$ $\pm 1$ code for larger sizes	
Calibration	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 1000 cSt	
Fluid Compatibility	Hydrocarbon and synthetic - Offshore - Aggressive - Fuels - Bio (different version available depending on fluids)	
Fluid Temperature	<b>Minimum:</b> -25°C (-13°F) <b>Maximum:</b> +80°C (+176°F)	
Display	Available as option with LCD and keypad control (K version)	
Ambient Temperature	<b>Non K version:</b> from -25 °C to +80 °C (from -13 °F to +176 °F) <b>K version:</b> from -25 °C to +55 °C (from -13 °F to +131 °F)	
Pressure	<b>Minimum</b> 0.5 bar (7 psi) <b>Maximum</b> 420 bar (6091 psi)	
Sample Volumes	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard.	
Moisture Sensing	% RH (Relative Humidity) $\pm 3\%$	
Temperature Measurement	$\pm 3\%$	
Data Storage	Up to 4000 tests	
Ingress Protection rating	<b>IP 67</b> non K version <b>IP 65</b> only K version	
Impact Protection rating	Versatile <b>IK04</b> Impact Protection	
Power	Voltage 9-36V DC	
Weight (unit only)	1.6 kg / 3.5 lbs	
Product Dimensions	<b>Width:</b> 142 mm (5 19/32") <b>Height:</b> 123 mm (4 27/32") <b>Depth:</b> 65 mm (2 9/16")	
	<b>ICM 2.0</b>	<b>ICM 4.0</b>
WiFi Enabled	NO	YES
USB port	YES (available only for test report download option "U")	NO



## 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

# WORLDWIDE NETWORK

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



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