

**DISCOVER
THE POWER OF
CONNECTIVITY**

**INLINE
CONTAMINATION
MONITOR**

ICM 4.0



**WiFi
Enabled**

PASSION TO PERFORM



ICM 4.0

**All the data - wherever you are,
whenever you need it.**

MP Filtri's highly-acclaimed Inline Contamination Monitor has raised the bar again - adding full wifi connectivity to its market-leading feature set, accuracy and repeatability.

A 24/7 real-time monitoring and critical early warning system, the ICM 4.0 delivers the ultimate in hydraulic health checks - with all data accessible via a sophisticated software suite and an innovative new mobile phone app.



**Industry 4.0
READY**



**WiFi
Enabled**

Live real-time monitoring

Instant hydraulic health checks

Large storage capacity

Store up to 4000 tests on internal memory

Robust and durable

Die-cast aluminium body -
IP 64 protection

Fast, customisable test results

Adjust test times and intervals to
your personal specification

Easy to master

Simple, straightforward interface

Space efficient

Perfect for con

SIX REASONS ICM 4.0

SETS NEW STANDARDS



ACCURACY

The ICM 4.0 is accurate to $\pm 1/2$ code for 4, 6, 14 μ m(c).



CONNECTIVITY

Wifi-enabled for instant access to machine performance.



ANALYSIS

Real-time monitoring and predictive maintenance. Full 8-channel measurement.



INFORMATION

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



EFFICIENCY

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



EASY TO MASTER

Sophisticated yet simple to use software that makes performance analysis easy.

Outstanding connectivity

Utilising the latest WiFi technology

Detailed, accurate results

Exceptional repeatability and full 8-channel measurement

Predictive maintenance technology

Identifying risks before they impact performance

User-friendly

Multi-coloured alert indicators for rapid issue recognition

Accessibility

Monitor your devices through award-winning analysis software

Non-WiFi Connections also available.

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

at
fined environments



A COMPREHENSIVE RANGE OF CONNECTION OPTIONS

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

1

ALL CONNECTIONS FROM ICM 2.0

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



WiFi
Enabled



OUTSTANDING ACCURACY



Complete 8-channel measurement, accuracy to within $\pm 1/2$ code 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 fascia.

Wherever you are working and whatever standards you are using we've got you covered. International standards include: ISO 4406; NAS 1638; and AS4059.



4

WEB BROWSER READOUTS

Generated from the unique IP address of each ICM 4.0.



GET UP AND RUNNING QUICKLY WITH OUR EASY TO FOLLOW ON-LINE TRAINING MODULES



2

AWARD-WINNING ANALYSIS SOFTWARE

Monitors results and provides detailed trend analysis.

For a complete operational overview of the performance of multiple machines simultaneously

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

CLOUD BASED SYSTEMS

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



TAKE YOUR ICM 2.0 TO THE NEXT LEVEL

All the advantages of WiFi connectivity can be enjoyed via your existing ICM 2.0 with a simple upgrade.

MP Filtri's new WiFi extender (WFXI) is fully compatible with ICM 2.0 devices and can be connected quickly and easily to your existing machine, bringing all the advantages of the new machine to your business at a stroke.

The WiFi extender enables you to connect, not only to the new mobile app, but also to the new CMPView Software, LPAView, and even generates full information to your web browser thanks to its unique IP address.

The WiFi extender delivers high-speed connectivity while being highly space efficient, ensuring it can still be fitted in cramped environments.

For more details, check out our latest product updates at www.mpfiltri.com

Please note: To ensure your version of the ICM 2.0 can be upgraded to wifi, please contact technical@mpfiltri.com informing us of your serial number.



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.

ICM 4.0 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 E & G, Table 1 AS4059 Rev E & G, Table 2 GBT 14039 GJB 420 B GOST 17216
Accuracy	$\pm 1/2$ code for 4, 6, 14 $\mu\text{m(c)}$ ± 1 code for larger sizes
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 1000cSt
Fluid Temperature	Minimum: -25 °C (-13 °F) Maximum: +80 °C (+176 °F)
Ambient Temperature	Minimum: -10 °C (+14 °F) Maximum: +55 °C (+135 °F)
Operating Pressure	Minimum 0.5 bar (7 psi) Maximum 420 bar (6091 psi)
Sample Volumes	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard. 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
Environmental Protection	IP 65/67 versatile IK04 Impact Protection
Power	Voltage 9-36V DC
Weight (unit only)	1.6 kg / 3.85 lbs
Product Dimensions	Width: 123 mm / 4.8" Height: 142 mm / 5.6" Depth: 65 mm / 2.6"

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



PASSION  PERFORM

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