



PASSION TO PERFORM

DISCOVER THE POWER OF CONNECTIVITY



WiFi
Enabled



Industry 4.0
Ready

ICM 4.0

Inline Contamination Monitor

Compatible with
CMP View



Find out more:
www.mpfiltri.co.uk

Designed, engineered & manufactured by **MP Filtri UK**

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.

SIX REASONS

THE ICM 4.0 SETS THE STANDARD



ACCURACY

Using the latest LED optical technology, 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.



EASE OF USE

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

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

Space efficient
Perfect for confined environments

Easy to master
Simple, straightforward interface





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

Accessibility
Monitor your devices through a single app / webpage

User-friendly
Multi-coloured alert indicators for fast issue recognition



Non-WiFi Connections also available.
Modbus, Canbus, 4-20mA signal and switched alarm relay outputs.

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.

Available options include:

- **All connections from ICM 2.0:**
Modbus, Canbus, 4-20mA signal and Switched alarm relay outputs (WiFi replaces the need for the remote connector).
- **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.
- **Web browser readouts:**
Generated from the unique IP address of each ICM 4.0.
- **Mobile App:**
Available for Apple iOS and Android devices.
- **MP Filtri's CMP View software:**
Monitors results and provides detailed trend analysis for a complete operational overview of the performance of every machine in the factory.



The ICM 4.0 should be a key weapon in your fight against contamination.



Cloud compatibility

The ICM 4.0 is fully Industry 4.0 compliant and when combined with a cloud package - enables you to track the performance and contamination levels of every single machine you operate in real time - wherever you are in the world.



Designed for ease of use

Built around simple yet sophisticated software that can be mastered in hours, the ICM 4.0 has been created for ease of use, allowing you to customise settings and access all the information you need on a single screen.



Accuracy for efficiency

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.



Wide range of reporting formats

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



CMP VIEW SOFTWARE POWER TO ANALYSE

Getting the very best from your
Contamination Monitoring Products

- Revolutionary new graphical interface displaying all key results visually on a single screen
- Ability to view short and long term contamination trends
- Real-time analysis
- Easy learning curve with no need for formal tuition
- Purpose-built for MP Filtri's CMP product range
- Enables fast, easy operation of ICM devices



Instant results delivered to your fingertips

At MP Filtri we deal in solutions - providing you with a purpose-built easy-to-use, mobile phone app that lets you access all the key information from your ICM 4.0 at the touch of a button. The app is free and is compatible with both Android and Apple devices.



ICM 4.0 Specification

Technology	LED based light extinction automatic optical particle counter
Particle Sizing	>4, >6, >14, >21, >25, >38, >50, >70 µm(c)
Analysis Range	SO 4406: Code 0 to 24; NAS 1638 Class 00 to 12; AS4059/ISO11218 Rev E, Table 1 Size Codes 2-12; AS4059/GJB420B Rev E, Table 2 Size Codes A-F 000-12*; AS4059 Rev F, Table 1 Size Codes 2-12; AS4059 Rev F, Table 2 Size Codes, cpc[000 to 12]* (Lower limits test dependent)
Accuracy	± 1/2 code for 4, 6, 14µm(c) ± 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 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
Pressure	Minimum: 0.5 bar / 7 PSI Maximum: 420 bar / 6091 PSI
Sample Volume	Adjustable 10 - 3600 seconds. Factory set to 120 seconds. Start delay & programmable test intervals available as standard
Data Storage	Up to 4000 tests
Environmental Protection	IP 64 versatile IK04 Impact Protection
Power	Voltage 9-36V DC
Weight	1.6 kg / 3.85lbs
Product Dimensions	Width: 123mm / 4.8" Height: 142mm / 5.6" Depth: 65mm / 2.6"

*See product literature for analysis range per size



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.co.uk informing us of your serial number.



Why choose MP Filtri as your partner for contamination control solutions?

MP Filtri prides itself on being the original and the best when it comes to Inline Contamination Monitors and Portable Particle Counters.

The celebrated ICM set new standards in the industry at launch - and this new incarnation enhances and improves the original machine's market-leading functionality - delivering faster results, greater accuracy, more storage, extensive customisation options, and a more robust and portable design.

MP Filtri has a proud heritage spanning more than 50 years as an innovator in the hydraulic filtration industry and has forged a growing reputation for the quality of its products and its customer service.

When the vast majority of hydraulic failures are caused by contamination - can you afford not to team up with MP Filtri and ensure your machinery is maximising its efficiency and potential?

Key Industry Sectors



Mobile

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



Offshore

Capable of handling aerospace phosphate ester, mineral and synthetic oil, subsea/offshore water based fluids and more....



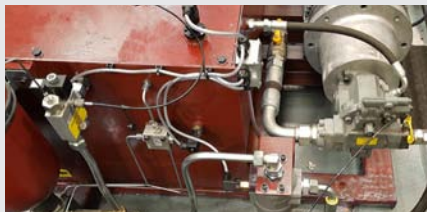
Industrial

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.



Test rigs

Delivers accurate and reliable comprehensive hydraulic health checks to a host of international standards.



Military

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

ICM How to order

Order example	ICM	W	M	K	U	G1	4.0
1. Contamination Monitoring Product							
ICM=	Inline Contamination Monitor						
2. Sensor Options: Moisture							
0=	Without moisture and temperature sensor						
W=	With moisture and temperature sensor						
3. Fluid Compatibility							
M=	Mineral Oil and Synthetic Fluids						
N=	Subsea and water-based fluids *						
S=	Phosphate, ester and aggressive fluids *						
4. Display Option							
0=	Without LCD and keypad control						
K=	With LCD and keypad control						
5. Output Option							
R=	With relays /external alarm outputs						
U**=	Test record transfer (direct to USB stick) plus relays/external alarm outputs						
6. Hydraulic Connection Option							
G1=	M16x2 test points						
G3=	1/4"BSPP female ports						
G4=	7/16th UNF female ports						
7. Design Reference							
2.0=	ICM 2.0						
4.0=	ICM 4.0 with integral WiFi						

ICM 2.0 WiFi Enabling Option

ICM-WFXI= ICM 2.0 Wifi Extender***

* N & S version, moisture sensor (W) not available

** U version not available in 4.0 design reference

*** Please check with MP Filtri UK quoting your ICM 2.0 serial number to ensure compatibility.

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All information stated in this brochure is correct at time of printing and subject to change without notice.



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