

**PROPEL YOUR  
BUSINESS  
INTO THE  
INFORMATION  
AGE**

**INLINE  
CONTAMINATION  
SENSORS**

**ICS**



**PASSION TO PERFORM**



**ICS  
INDUSTRIAL  
VERSION**

## A BIG PERFORMANCE IN A SMALL PACKAGE

MP FILTRI'S ICS enables operators to benefit from reliable, repeatable, contamination monitoring in systems where space is limited.

Value for money is exceptional - enabling customers to provide peak protection for every single machine



## COMPREHENSIVE RANGE OF CONTAMINATION MONITORS

Both Industrial and Mobile ICS models are part of MP Filtri's wide selection of proven contamination monitors, including portable, inline, mobile and in-situ options.



## CHOICE OF COMMUNICATION OPTIONS

**ICS  
MOBILE  
VERSION**



While the Industrial edition offers industry standard 4-20mA and RS485 Modbus RTU connections, the ICS mobile device also offers CanBus communications.

## COMMITMENT TO QUALITY

Designed and manufactured in the UK at our specialist Contamination Monitoring Products division, the ICS is made of premium hard-wearing components and is created for durability and longevity.

Utilising 316-grade stainless steel, the ICS is extremely resistant to corrosion and is compatible with an array of fluid types.

**ICS  
INDUSTRIAL  
VERSION**



## WORK SMARTER, WORK SAFER

MP Filtri's ICS unleashes a information age - delivering real-time contamination monitoring and tried-and-trusted critical early warning systems.

Enhancing communication and connectivity, the Industrial and Mobile models can save you time, money and risk by ensuring your systems are protected round-the-clock.



## 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 contamination monitoring technology

The company 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?



## CONNECTIVITY THE COMPLETE PICTURE



Designed for value, MP Filtri's ICS sensors open up contamination monitoring to audiences, enabling customers to check individual machines for particle build-up and take preventive action before damage and downtime occur.

The devices can help keep key machinery in peak condition and ensure productivity is not compromised.

# FLEXIBILITY BUILT-IN AS STANDARD

## The ultimate hydraulic health check for the mobile, industrial and machine tools industries

ICS devices are robust and offer a superb combination of accurate real-time contamination monitoring and cost-effectiveness.

Available with CANbus, 4-20 mA, and RS485 Modbus RTU communication configuration options, the monitoring sensors are an essential tool for anyone serious about maximising the efficiency and performance of hydraulic systems.

Reduced downtime, lower operating costs and longer lifespans of machinery are just some of the benefits the ICS can deliver as part of a complete contamination control strategy.

## KEY INDUSTRY SECTORS



### 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.

## ICS SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Technology               | LED Based Light Extinction Automatic Optical Contamination Sensor  |
| Particle Sizing          | >4, >6, >14  |
| Analysis Range           | ISO 4406   |
| Hydraulic Connection     | Inline Mounting  |
| Accuracy                 | ± 1 code for 4,6,14um(c)   |
| 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          | 1000 cSt   |
| Fluid Temperature        | Industrial version: <b>Minimum:</b> -25 °C (-13 °F) <b>Maximum:</b> +80 °C (+176 °C)<br>Mobile version: <b>Minimum:</b> -25 °C (-13 °F) <b>Maximum:</b> +100°C (+212 °C)                               |
| Ambient Temperature      | Industrial version: <b>Minimum:</b> -10 °C (+14 °F) <b>Maximum:</b> +55 °C (+131 °F)<br>Mobile version: <b>Minimum:</b> 0 °C (+32 °F) <b>Maximum:</b> +50 °C (122 °F)                                  |
| Pressure                 | <b>Minimum</b> 0.5 bar (7.25 PSI) <b>Maximum</b> 420 bar (6091 PSI)  |
| Fluid compatibility      | Mineral oils, synthetic fluids   |
| Communication Options    | Industrial Version: 4-20mA; RS485 Modbus RTU<br>Mobile Version: CANbus   |
| Environmental Protection | Industrial version: IP67 (Impact protection IK04)<br>Mobile version: IP69K; (ImpactProtection IK04)  |
| Dimensions               | Industrial version: <b>Width:</b> 58 mm / 2.3" <b>Depth:</b> 50 mm / 2" <b>Height:</b> 68 mm / 2.7"<br>Mobile version: <b>Width:</b> 58 mm / 2.3" <b>Depth:</b> 50 mm / 2" <b>Height:</b> 76 mm / 2.7" |
| Weight                   | 0.9 kg (2 lbs)   |
| Electrical Supply        | Industrial version: 24v DC +/- 20%<br>Mobile version: 9-36v DC   |
| Power Consumption        | <1.5W  |

## 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

in   



[mpfiltri.com](http://mpfiltri.com)

MP Filtri reserves the right to make modifications to the models and versions of the described products at any time for both technical and/or commercial reasons. For updated information please visit our website: [www.mpfiltri.com](http://www.mpfiltri.com). The colors and the pictures of the products are purely indicative. Any reproduction, partial or total, of this document is strictly forbidden. All rights are strictly reserved.

MF002000201  
EN - 2024.10