

**PROPEL YOUR
BUSINESS
INTO THE
INFORMATION
AGE**

**INLINE
CONTAMINATION
SENSORS**

ICS



PASSION TO PERFORM



**ICS
INDUSTRIAL
VERSION**

A BIG PERFORMANCE IN A SMALL PACKAGE

ICS contamination sensors 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 by 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 the 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: Minimum: -25 °C (-13 °F) Maximum: +80 °C (+176 °C) Mobile version: Minimum: -25 °C (-13 °F) Maximum: +100°C (+212 °C)
Ambient Temperature	Industrial version: Minimum: -10 °C (+14 °F) Maximum: +55 °C (+131 °F) Mobile version: Minimum: 0 °C (+32 °F) Maximum: +50 °C (122 °F)
Pressure	Minimum 0.5 bar (7.25 PSI) Maximum 420 bar (6091 PSI)
Fluid compatibility	Mineral oils, synthetic fluids
Communication Options	Industrial Version: 4-20mA; RS485 Modbus RTU Mobile Version: CANbus
Environmental Protection	Industrial version: IP67 (Impact protection IK04) Mobile version: IP69K; (ImpactProtection IK04)
Dimensions	Industrial version: Width: 58 mm / 2.3" Depth: 50 mm / 2" Height: 68 mm / 2.7" Mobile version: Width: 58 mm / 2.3" Depth: 50 mm / 2" Height: 76 mm / 2.7"
Weight	0.9 kg (2 lbs)
Electrical Supply	Industrial version: 24v DC +/- 20% 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.

WORLDWIDE NETWORK

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



PASSION  PERFORM

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