

ICU

In-line Contamination Monitoring Unit



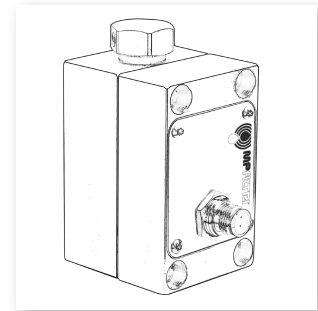
Description

Automatic Particle Counters

In-line Contamination Monitoring Unit

The ICU automatically measures particulate contamination levels in various hydraulic fluids and is designed for industrial applications.

It is designed to be manifold mounted directly to systems, where ongoing measurement or analysis is required, and where space and costs are limited.



> Features & Benefits

- Manifold mounting
- 3 channel contamination measurement
- Measures ISO 4406:2017
- Robust design and construction
- LPA View software (included)
- Pressure max. 350 bar
- Environmental protection IP65/67 versatile
- 4-20mA analogue output as standard

Scope of Supply

- 1 x ICU0M00G5P02
- 1 x Installation kit:
 - 4 x M6x1.0x60mm long fixing bolts
 - 2 x 6.50 ID x 1.5 CSD FKM o-ring seals
- 1 x Hard copy of calibration certificate

See Accessories at page 75.



Facing view



Front / Left facing view

Technical data

Technology

LED Based Light Extinction Automatic Optical Contamination Monitor (*)

Particle Sizing

>4, 6, 14 $\mu\text{m}_{(c)}$ to ISO 4406:2017 Standard

Analysis range

ISO 4406:2017 Code 0 to 20

Accuracy

$\pm \frac{1}{2}$ code for 4,6,14 $\mu\text{m}_{(c)}$ across the analysis range

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

Operating Flow Rate

200 ml/minute controlled by the built in flow control valve

Viscosity range

≤ 1000 cSt

Fluid temperature

From +25 °C to +80 °C

Ambient Temperature

From 0 °C to +60 °C

Pressure

Minimum: 50 bar

Maximum: 350 bar

Test time

Adjustable 10 - 3600 seconds

Communication options

4-20 mA. A time multiplex as standard

Environmental Protection

IP 65/67 versatile

Weight

1.4 Kg

Electrical Supply

24v DC +/- 20%

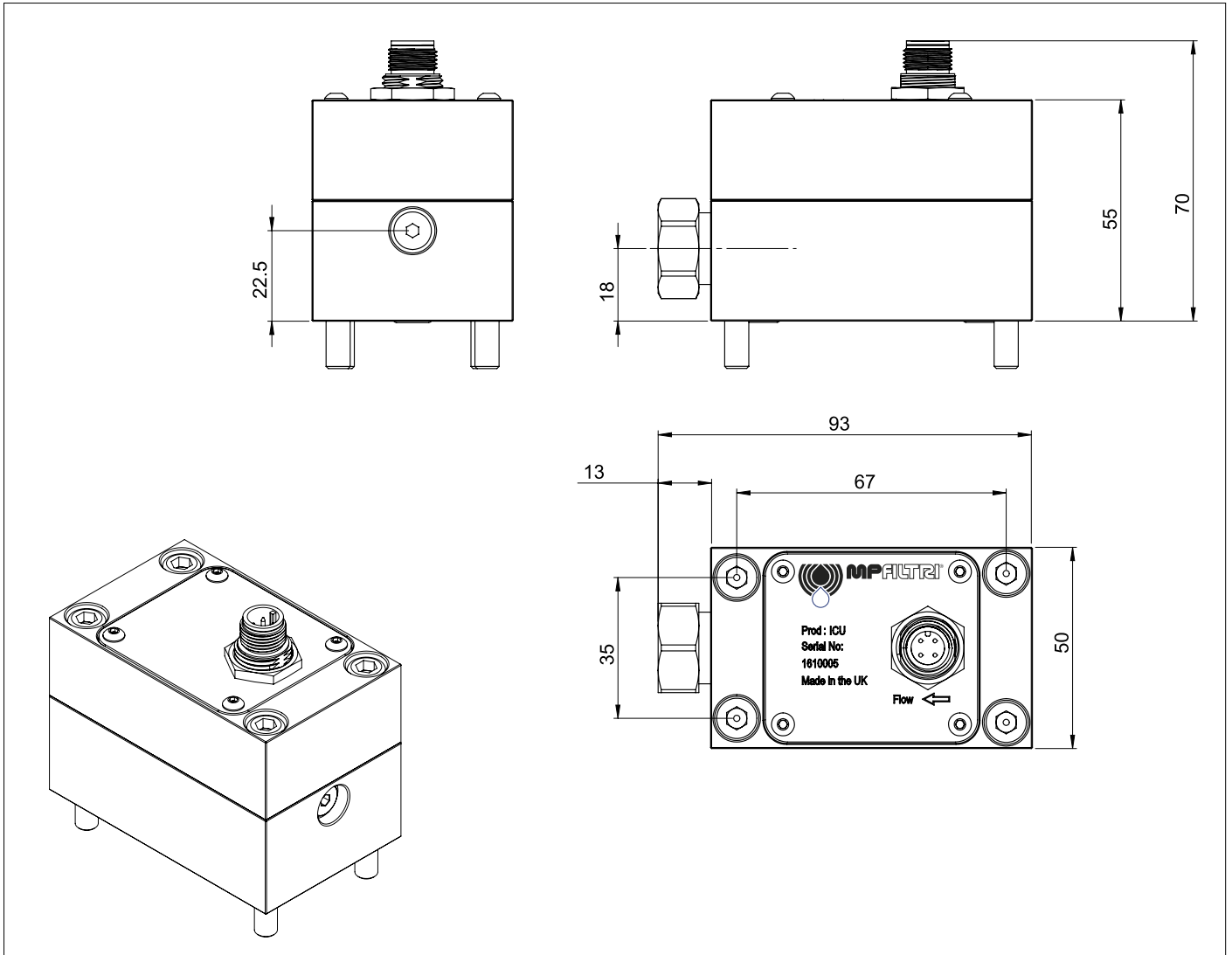
Power consumption

<2.2 W

Cable

Electrical cable has to be ordered separately (optional accessory), MP Filtri item no. 13.061000 - ICU Cable M12 4 pin 1.5m long.

Dimensions



Designation & Ordering code

AUTOMATIC PARTICLE COUNTER ICU

Configuration :

ICU	0	M	0	0	G5	P01
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 Without moisture sensor, Mineral oil, Without keypad/display, 4 to 20mA timed multiplex, Manifold mounted, Standard option

