

Inline Contamination Monitoring Unit ICU

Permanently fitted, inline contamination monitoring of various hydraulic fluids. It is designed to be manifold mounted directly to systems where regular and on-going contamination monitoring is important. The unit is small and cost sensitive, made to be fitted in to places where space is limited and price is important.

It reports three particle size ISO codes via the signal output when interrogated by the control system. The system controller must be able to read 4-20mA levels and provide a switched signal to initiate an output.



Hydraulic measurement and control



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Features

- **LOW** cost
- **MANIFOLD** mounting
- **3 CHANNEL** ISO code contamination reporting
- **SMALL** robust design
- **PRESSURE** 350 bar max.
- **ENVIRONMENTAL** protection: IP65/67
- **SIMPLE** control interface: 4 - 20 mA time multiplex



ICU-BU-ENG-3622.pdf
(Version 1)

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Technical Data

Technology:	LED based Light Extinction Automatic Optical Monitor
Particle Sizing:	>4, 6 and 14µm to ISO 4406, 1999 Standard
Analysis range:	ISO 4406: 1999 Code 0 to 20
Accuracy:	±1/2 code for each size range
Calibration:	Individually calibrated and certified to I.F.T.S ISO 11943
Operating flow range:	200ml / minute, controlled by the inbuilt flow valve
Viscosity range:	≤ 1000cSt
Fluid temperature:	+25°C to + 60°C
Pressure Min':	25 bar
Pressure Max':	350 bar
Test time:	Adjustable from 10 to 3600 seconds
Communication:	4-20mA, time multiplex initiated by the control line
Ambient temperature:	0°C to + 60°C
Environmental protection:	IP65/67
Weight:	1.4Kg
Electrical supply:	24v DC ±20%
Power consumption:	<2.2w

Dimensions

