

Pall PCM200 series Fluid Cleanliness Monitor

Description

The Pall PCM200 Fluid Cleanliness Monitor is a cost effective monitoring device that provides accurate, reliable assessment of system fluid cleanliness.

- Proven filter/mesh blockage technology (ISO 21018 Pt.3)
- Performance is not affected by water, air or opaque fluids
- Monitors dissolved water content as % saturation or ppm for specific fluids (PCM200W only)
- Low pressure (< 2 bar) on-line or off-line analysis
- Continuous monitoring capability
- Stores up to 500 test results
- PC-based trending software included
- Viscosity output in centistokes (cSt)
- Remote control and data acquisition via PC, PLC or optional hand-held display

Benefits

As part of continued component cleanliness 'pass off' checks or predictive maintenance programs, the PCM200 Fluid Cleanliness Monitor reports test data in real-time, so that ongoing assessments can be made.

Early detection of abnormal fluid cleanliness allows for timely investigation and corrective actions to be implemented. The PCM200 Fluid Cleanliness Monitor can be permanently installed on critical applications (including component test facilities) or used as a portable device for routine condition monitoring of various fluid systems.

The PCM200 Fluid Cleanliness Monitor has been designed for operators who require a cost effective, simple to use, low-pressure monitor. It can also be laboratory based or integrated into OEM equipment.

A key benefit of PCM cleanliness monitors is that they can be used on fluids that are not suitable for use with traditional Automatic Particle Counters, results are not affected by water, air or opaque fluids.

Applications

- Component wash fluids
- Cutting fluids
- Aqueous solutions
- Coolants
- Water glycols
- Mineral and synthetic oils
- Hydraulic and lubricating fluids
- Fuels



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Features

The front facia user interface contains 4 LED's and 2 COM Ports for unit operation and test. There are two RS232 communication ports for either optional 'hand-held' display or PC connection, or for PLC interface using a protocol already implemented in PCM200 series monitors.

The four LEDs indicate Power, Standby/Testing, Sampling and Hardware issues.

An optional 'hand-held' display allows simple menu driven inputs for sample identification, monitor configuration and data output in ISO4406, SAE AS4059 Table 1 (previously NAS1638) or SAE AS4059 Table 2 formats.

The optional 'hand-held' display shows real-time data and test results, which are automatically stored for subsequent trending and evaluation. Data can also be displayed on a remote PC or PLC using simple ASCII II commands.



Hand-held display
(Optional)

Specifications

Power supply:	90 to 264 V AC Single Phase 47 - 63 Hz Auto Ranging IEC Mains Socket 18 to 24 V DC (60 W) XLR Socket
Fuse:	2 Amp
Compatibility:	Water glycols, aqueous solutions, Petroleum and synthetic oils (hydraulic lubricating, dielectric, etc.) fuels, industrial phosphate esters.
Seals:	Fluorocarbon
Fluid Cleanliness Monitoring Range:	ISO 4406: -/9/7 to -/21/17 SAE AS 4059 Table 1 Class 1 to 10 (derived from NAS 1638) SAE AS 4059 Table 2 Class > 6µm 1B to 10B > 14µm 1C to 10C
Fluid Water Content Monitoring Range:	0 to 100% Saturation ppm output (PCM200W only)
Operating Pressure:	0 to 2 bar (29 psi) max
Temperature:	5 °C to 80 °C (41 °F to 176 °F)
Viscosity Range:	1.5 cSt to 450 cSt (30 to 2,200 SUS)
Accuracy:	± ½ ISO code
Output:	2 x RS232
Enclosure:	IP65 (NEMA 4)
Weight:	9 kg (20 lb)

Ordering Information

Table 1: Part Number Information

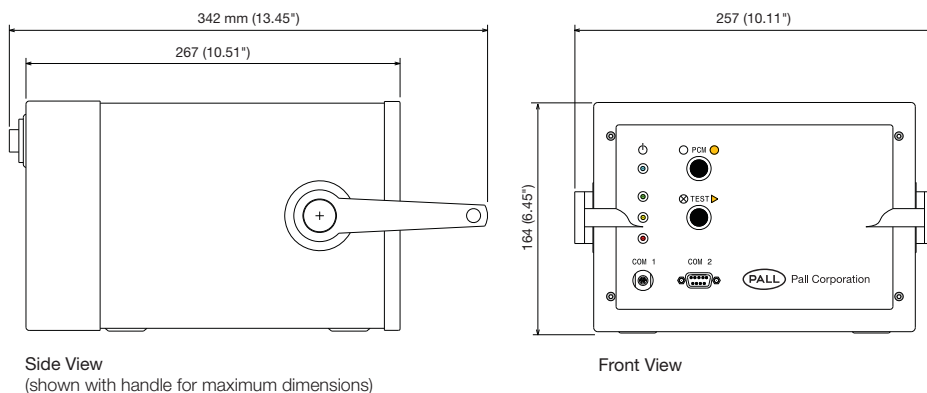
Order Part No.	Description
PCM200	Fluid Cleanliness Monitor without water sensor for aqueous fluids (wash fluids @ pH < 11.0)
PCM200W	Fluid Cleanliness Monitor with integrated water sensor for use with non-aqueous fluids (petroleum based fluids, industrial phosphate esters, mineral/synthetic oils)
PCM200B	Fluid Cleanliness Monitor without water sensor for aqueous fluids (wash fluids @ pH < 11.0) Complete with factory fitted mounting brackets
PCM200WB	Fluid Cleanliness Monitor with integrated water sensor for use with non-aqueous fluids (petroleum based fluids, industrial phosphate esters, mineral/synthetic oils) Complete with factory fitted mounting brackets

Table 2: Options List

Order Part No.	Description
PCM200.DISPLAY	Hand held display and cable
PCM200.PRT	Printer kit and accessories
PCM200-CASE	Transit case

PCM Fluid Cleanliness Trender software supplied with the PCM200 features:

- Graphical and spreadsheet reporting
- Trending capabilities
- Printable reports



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