Pall Corporation

Pall® PCM200 Series Fluid Cleanliness Monitor

Description

The Pall PCM200 Fluid Cleanliness Monitor is a cost effective monitoring device that provides accuarate, 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)
- On-Line (low pressure, < 2 bar/29 psi) or off-line analysis
- Continuous monitoring capability
- Stores up to 500 test results
- Viscosity output in centistokes (cSt)
- Remote control and data acquisition via PC, PLC or optional hand-held display
- PC-based trending software included

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 LEDs (indicating power, standby/testing, sampling and hardware issues) and 2 buttons (on/off and test start). There are also two RS232 communication ports for 'hand-held' display or PC connection, or for PLC interface using an integrated protocol.

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 display shows real-time data and test results, which are automatically stored for trending and evaluation. Data can also be displayed on a remote PC or PLC using simple ASCI 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 > 6 µm 1B to 10B > 14 µm 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)
Output:	2 x RS232
Enclosure:	IP65 (NEMA 4)
Weight:	9 kg (20 lb)
Dimensions with Mounting Bracket:	H 178 x W 282 x D 265 mm (H 7 x W 11.1 x D 10.4 inches)
Dimensions with Handle:	H 164 x W 262 x D 330 mm (H 6.6 x W 10.3 x D 13 inches)
PCM Fluid Cleanliness Trender software supplied with the PCM200 features:	• Graphical and spreadsheet reporting • Trending capabilities • Printable reports

Ordering Information

PCM200 1 2 3 4

This is a guide to the Part Numbering structure only, for specific options, please contact Pall.

Table 1: Water Sensor

Code	Description
None	No Water Sensor Fitted
W	Water Sensor Fitted

Table 2: Mounting Option

Code	Description
None	No Mounting Bracket (Handle)
B	Mounted Brackets Fitted (No Handle)

Table 3: Mains Lead

Code	Description
A	UK Power Lead
B	European Power Lead
C	USA Power Lead
D	Australian Power Lead
E	Japanese Power Lead

Table 4: Language

Code	Description
DE	German
EN	English
ES	Spanish
FR	French
IT	Italian

Printer Kit and Accessories PCM200-PRT 3

Optional Display PCM200-DISP

Optional Transit Case PCM200-CASE

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Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

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