



Pall Corporation

The PFC400W Series Portable Particle Counter

The Pall PFC400W laser particle counter was specifically developed as a portable diagnostic device that measures the size and quantity of particulate in industrial system fluids.

Features

- Proven laser light blockage technology
- Monitors dissolved water content (% saturation or PPM output)
- High and low pressure on-line sampling
- Off-line (bottle) sampling
- Performs single counts, timed counts, or continuous counting
- Wide fluid viscosity range (2 to 300 cSt)
- 1000 run internal memory
- Integral battery allows for counting of 50 or more fluid samples before recharging is required
- Detachable, hand held programmer/display
- PC-based trending software
- Transport case

Benefits

Monitoring the trend of system fluid cleanliness as part of a predictive maintenance program assists users in identifying abnormal conditions and potential problems. When observed, either additional fluid analyses may be performed or, if required, prompt corrective actions can be implemented.

The PFC400W counter is very easy to operate and can either be permanently installed on-line to monitor critical applications (e.g. component test facilities) or used as a portable device for routine condition monitoring of various hydraulic, lubrication, and other fluid systems.



PFC400W Particle Counter

Operation

The PFC400W counter is simple to operate, with input of sample identification, counter configuration and data output requirements entered via the integrated keyboard. Specific sample point "profiles" can be created (either via the hand held device or a PC) and stored in the unit for quick access error-free testing.

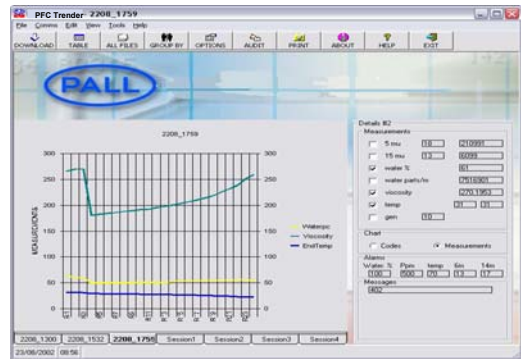
System fluid contamination levels are counted using state-of-the-art laser technology. Results are reported as codes or classes in accordance with ISO4406, SAE AS4059D or NAS1638. The analysis data (particle counts and codes or classes) can be downloaded from the hand held device to a PC via the RS232 communications port, and stored for subsequent trend analysis.

applications

- Dielectric fluids
- Industrial phosphate esters
- Mineral / synthetic oils
- Lubricants
- Fuels

Specifications

Counting Sizes:	4, 6, 10, 14, 21, 30, 38 & 70 $\mu\text{m}_{(c)}$	
Cleanliness Code Ranges:	ISO 4406:	01 to 23
	NAS1638:	00 to 12
	SAE AS4059D:	000A to 12F
	DEF STAN:	400F to >6300F
Calibration:	Based on ISO 11171	
Water content:	0% to 100% saturation The unit can also display value in ppm (requires proper fluid constants)	
Operating Pressures:	LP range:	0 to 5 bar (70 psi)
	HP range:	4 to 400 bar (60 to 5,800 psi)
Operating Viscosity:	2 to 300 cSt (to 1,500 SUS)	
Fluid Operating Temperature:	10°C to 100°C (50°F to 212°F)	
Fluid Compatibility:	Petroleum based fluids, industrial phosphate esters, mineral oils, dielectric fluids, kerosene coolants and synthetic fluids	
Seals:	Fluorocarbon	
Sample Time:	<2 minutes (adjustable)	
Power Supply:	100 - 240VAC, 50 – 60 Hz or 10VDC – 36VDC	
Output:	RS232 D9 connector	
Enclosure:	IP54, NEMA 4	
Electromagnetic Compatibility:	Complies with EN50082-2, 1995 for immunity EC standard and also EN50081-1, 1992 standard for emissions	
Weight:	9 Kg (19.8 lb)	
Dimensions:	410 x 130 x 335 mm (16.1 x 5.1 x 13.2 inches)	



Pall Cleanliness Trender Software

- Graphical or spreadsheet reporting of data downloaded from the PFC400W to a PC
- Printable reports
- Provides for further trend analyses of the stored data
- Customer defined alarm limits

PFC400W Ordering Information

Part Number	Description
PFC400W	Portable Laser Particle Counter with integrated water sensor for use with petroleum based fluids, phosphate esters, mineral & synthetic oils (aqueous fluids are unsuitable); Includes Cleanliness Trender software and transport case.
PFC-Print	Optional thermal printer for use with PFC400W counter.



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