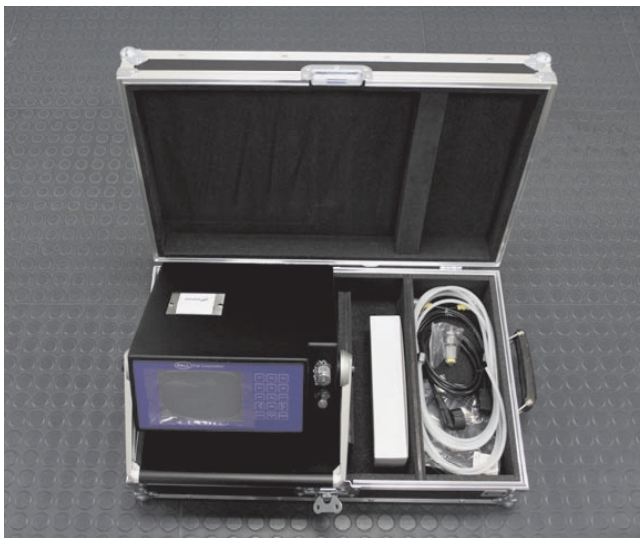
Pall Corporation

Pall® PFC450 Portable Particle Counter

The Pall PFC450 laser particle counter is a portable diagnostic device that measures the size and quantity of particulates in industrial, aerospace and military fluid power systems. Particulates in the system fluid are counted using laser light obscuration technology and measurement results are reported as codes or classes in accordance with common industry standards.

PFC450 cleanliness monitor



PFC450 cleanliness monitor carry case

Features

- Proven laser light obscuration technology
- High and low pressure on-line sampling
- Off-line measurement using sample bottle
- Pressurized sensor for online sampling mode to eliminate result errors from air bubbles in sample fluid
- Optional degassing unit available for bottle sampling mode
- User friendly operation using back lit touch screen with graphic display
- 4000 sample internal memory
- Built in printer provides instant hardcopies
- Fully portable battery operated unit
- USB connector for PC connection
- PC-based measurement result download software
- Sturdy transport case

Monitoring the trend of system fluid cleanliness is fundamental to system reliability and helps identify abnormal conditions and potential problems. The Pall PFC450 portable particle counter provides accurate, repeatable and rapid results, allowing the user to take prompt corrective actions when required.

The PFC450 counter can either be permanently installed on-line to monitor critical applications (e.g. component test facilities or critical machinery) or used as a portable device for routine condition monitoring of various hydraulic, lubrication, and other fluid systems.

Applications Include

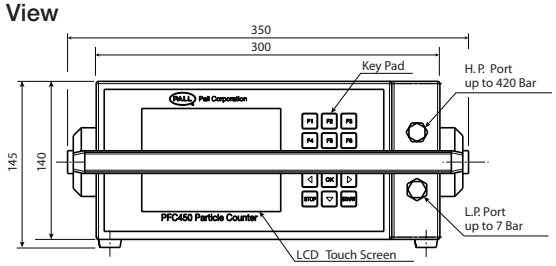
- Mineral/ Synthetic oils
- Lubricants
- Fuels
- Dielectric fluids
- Industrial Phosphate Esters

Technical Specifications

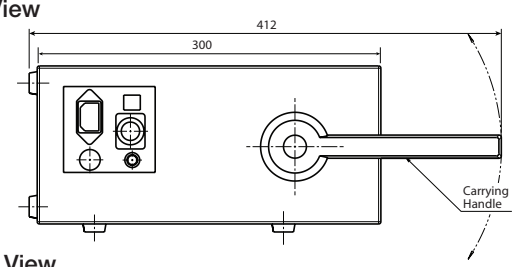
Counting Channels:	4, 6, 10, 14, 21, 30, 38 & 70 µm(c)
Results reported to:	ISO4406: 1999, SAE AS 4059E Table 1 (NAS 1638), SAE AS 4059 Table 2, GJB 420A, GOST 17216
Calibration:	4 to 70 µm(c) according to ISO11171:1999 with ISO MTD (NIST)
Operating Pressure:	
Low Pressure:	0 to 7 bar (100 psi)
High Pressure:	4 to 420 bar (58 to 6000 psi)
Operating Viscosity:	Low Pressure: Up to 200 cSt High Pressure: Up to 350 cSt
Fluid Temperature:	10 °C to 60 °C continuous operation (50 °F to 140 °F)
Fluid Compatibility:	Petroleum based fluids, Industrial Phosphate Esters, Mineral Oils and Synthetic Fluids.
Power Supply:	100 to 240 VAC (50/60Hz) or 10 to 36 VDC via integrated battery
Data Printout:	32 Column Thermo Printer
Output:	8 bit ASCII Code through USB Port Connector
Enclosure:	IP40 to BSEN 60529:1992
Weight:	9 kg (20 lb)
Dimensions:	350 mm W x 145 mm H x 412 mm D (13.7 in W x 5.7 in H x 6.2 in D)

Pall PFC450 is CE certified

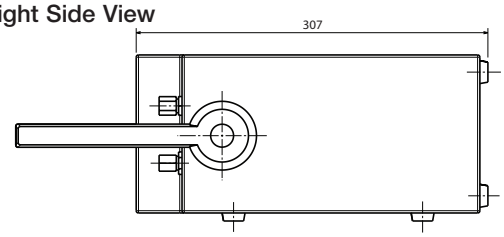
Front View



Left Side View



Right Side View



Accessories included with PFC450 counter

- Power cord
- USB Cable
- Calibration tables and certificate (specific to the instrument)
- 2 plastic low pressure hoses with fittings
- Minimess high pressure hose
- Hydraulic fitting adapter
- Operating manual and CD ROM with Download Software
- 5 rolls of thermal printer paper
- Carry case

Ordering Information

Code	Description
PFC450	PFC450 particle counter with accessories

Pall Corporation

Pall Machinery and Equipment

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Filtration. Separation. Solution.SM

ENABLING A GREENER FUTURE SM

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

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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