

PC9001

Online Particle Counter - Affordable, Accurate Analysis



Filtertechnik brings you the latest technology for contamination control. The PC9001 particle counter comes with archiving and trending software providing a cost-effective analysis solution and a must have for service engineers



HOW CLEAN IS YOUR OIL?

Introduction

Perfect for proactive maintenance and on-line monitoring, the PC9001 is a continuous particle counter with instant LED readout, computer interface and trending software. It is simple to use, low cost and can be used as an alarm to notify you of any changes in contamination levels. It is also ideal for plotting ISO cleanliness trends with accuracy at +/- 0.5 an ISO code, the PC9001 utilises the exact same laser particle counting technology found in more expensive laboratory particle counting equipment. The PC9001 can be used to trigger alarms or operation of filtration systems.



THE PC9001 CAN BE INSTALLED ON ANY OF OUR FUEL/OIL POLISHING UNITS

The PC9001 provides early warning sign for:

- Rise in contamination
- Component wear
- Filter and seal failure
- Water ingress
- Oil oxidation
- Cavitation

Features

- Particle counting with LED readout
- Computer software for archiving data and trends
- Can be installed on all our Fuel or Oil Polishing Units
- Cost effective contamination control
- Accuracy is +/- 0.5 of an ISO code
- Also available as a portable system in our Particle Pal



Benefits

- Low cost and compact
- Highly accurate
- Robust design
- Ideal for fluid cleanliness trending
- Alarm indication with relay for controlling systems
- Real time analysis of fluid cleanliness - ISO, SAE & NAS class readout
- Easy to install
- 500 bar pressure



ALSO AVAILABLE AS A PORTABLE SYSTEM FOR REAL TIME RESULTS IN MINUTES

PC9001- TECHNICAL SPECIFICATION

Model	PC9001
Dimensions	8.9 cm (W) 10.7 cm (D) 8.9 cm (H)
Enclosure	IP 66
Fitting connections	SAE -4; SAE -8
Power requirements	9 to 33 VDC, 150 mA
Storage temperature	-40 to 85°C (-40 to 185°F)
Operating temperature	-10 to 60°C (-14 to 140°F)
Altitude limit	2000 m (6562 ft)
Overvoltage category	1
Pollution degree	4
Protection class	III
Light source	Laser diode, Class 1
Particle size/channel	4,6, 14 and 21 µm (ISO MTD)
Storage/operating humidity	97% relative humidity, non-condensing
Fluid compatibility	Hydraulic and lubrication oils, mineral, synthetic (phosphate ester compatible) diesel fuels
Fluid viscosity	2 to 424 cSt ¹
Reports	ISO 4406, NAS and SAE cleanliness code
Wetted materials	Brass, aluminium (anodised), steel, stainless steel, sapphire, Aflas®
Performance verification	Optional validation certificate available (ISO MTD at 2.8 mg/L concentration)
Reproducibility	±0.5 ISO code (minimum concentration ISO MTD 2.8 mg/L, maximum ISO code is 29)
Weight	746 grams (2lb)
Serial interface	RS32 and RS485, 9600 Baud, 8 data bits, no parity, 1 stop bit
Communication protocol	MODBUS RTU
Flow rate for PC9001-31 & PC9001-61	50 to 500 ml/min (0.01 to 0.1 gal/min)
Flow rate for PC9001-21 & PC9001-51	3.8 to 45.4 L/min (1 to 12 gal/min)
Sample temperature	0 to 60°C (32 to 140°F)

* Technical Specification could change at any time

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