

FIRST FOR PORTABLE PARTICLE COUNTING

FS9V2-RH & FS9V2-RH-HP - particulate and relative humidity monitoring

The FS9V2-RH Particle Pal displays live cleanliness readings for particulate (ISO/NAS/SAE) and (%RH) of any water sample.



The FS9V2-RH is fitted with an accurate laser counter for oil cleanliness codes and a water sensor to measure the relative humidity of a sample. The FS9V2-RH-HP is the high pressure option and can monitor systems up to 350 bar.

Applications

- Plant Hire
- Injection Moulding
- Steel Production
- Manufacturing
- Automotive Industry

INTRODUCTION

The award winning and revolutionary portable particle monitor for advanced on-site testing of your oils or diesel fuels just got better. Our next generation V2 has many new features and a hugely improved fluid flow, pump feature set.

The FS9V2-RH & FS9V2-RH-HP models under the Particle Pal series show live ISO particle counts and is able to measure % RH water content for all oils up to 320 cSt. We believe it's the most cost-effective portable cleanliness monitor on the market.

The FS9V2-RH addition offers new features including a combined LCD screen and memory as well as a pressurised internal flow path for fluid. The whole kit is supplied in a robust case and have all components needed to start using instantly. For testing readings from live systems up to 350 bar using the high pressure option - FSV2-RH-HP.

FEATURES

- Particulate readings displayed in ISO 4406, SAE 4059 & NAS 1638
- % RH water content measurement
- Built-in memory for storing readings
- Bottle sample from a minimum of 200 ml
- High pressure option available for all oil Particle Pal units
- Compact, lightweight unit with robust casing
- Viscosity range (1-320 cst)
- Accurate, repeatable and consistent results
- Instantly measure the quality of oils
- Ideal survey tool for field and laboratory use



High pressure model can monitor the cleanliness of live systems up to 320 bar

BENEFITS

- Compact, lightweight and robust
- Accurate, repeatable and consistent results
- Measure the cleanliness of oils
- Ideal survey tool for field or laboratory use
- Sample direct from tank, sample bottle, or live system feed up to 350 bar (via HP adapter)

OIL TESTING

In Hydraulic and Lubrication systems, real time cleanliness data can prevent serious system failure and component damage. By trending oil cleanliness in real time, the necessary protection can be put in place to protect sensitive components. Samples can be taken directly from the reservoir of fluid power systems or from a oil sample taken from the system.

FS9V2-RH & FS9V2-RH-HP

TECHNICAL SPECIFICATION

Model	FS9V2-RH	FS9V2-RH-HP
Case	HPX® high performance resin construction with press & pull latches and durable soft-grip handles.	
Dimensions	411 mm (W) x 322 mm (D) x 170 mm (H)	
Weight	6.85 kg	
Nominal Battery Voltage	15.0 VDC	
Charge Voltage	16.8 VDC	
Capacity	5.2 Ah	
Charge time	2 hours (80%) 5 hours (100%)	
Modes of operation	Tank sampling	
	Bottle sampling (1000ml minimum sample bottle recommended)	
Cleanliness standards	ISO 4406, NAS 1638 and SAE AS4059 and % RH of water sample	
Pump type	Gear pump	
Duty cycle	Continuous	
Datalogging	Logging to internal memory transferred to USB stick as .csv file	
Viscosity Range	1-320 cSt	
Fluid compatibility	Oil (hydraulic, lubrication, mineral and synthetic)	Oil (hydraulic, lubrication, mineral and synthetic)
Fluid temperature	-10...60°C (oils)	
Connections	1604 minimess test points, with 0.6 long 8mm tubing	
Pressure	2.5 bar max	Up to 350 bar
Environmental:	Lid closed: IP67 Lid open: IP54	
Maximum humidity	97% relative humidity, non condensing	
Supplied	1m suction tube fitted with 80 MESH strainer (6mm OD) 1m discharge tube (6mm OD) Battery charger (UK 3 pin plug) PC software USB data transfer cable Manual	
Certification	Factory calibration certificate CE declaration	
Verification frequency	12 months recommended	
PC requirements	Universal either Mac or PC, spreadsheet software (MS Excel)	



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