



FIRST FOR DIAGNOSIS

FS9V2: Portable oil and fuel cleanliness just got better

Whether on-site or in the laboratory, the FS9V2 Particle Pal will provide instant cleanliness readings to allow you to fully understand the condition of your oils and fuels.

A self contained system, complete with integral pump and controlled flow rate.



Portable Oil and Fuel Diagnosis

ENGINEERED ON AN **AWARD** **WINNING** REPUTATION

The FS9V2 is available in multiple configurations

OILS



PARTICULATE



PARTICULATE
AND WATER
AS %RH



HIGH PRESSURE
OPTIONS

FUELS



PARTICULATE



PARTICULATE
AND WATER
AS PPM



PARTICULATE
AND WATER AS
PPM + DENSITY



FS9V2 HAS A WIDE RANGE OF IMPROVEMENTS
OVER THE FIRST GENERATION DESIGN.



Single LCD Display showing all sensors connected

The new FS9V2 model has a single screen to display any combination of particulate, water (as %RH) or genuine PPM depending on the internal sensor or density depending on the model chosen. It can display codes as a single reading e.g. B15/13. With options to include the 21 micron count and to show ISO, NAS or SAE cleanliness codes. Alarm level can also be set via the LCD display.



Diesel fuel testing

With a choice of three models for diesel fuel testing, Particle Pal is able to detect particulate levels in any diesel and off sample.

For water analysis we've included an accurate, temperature compensated genuine Parts Per Million (PPM) sensor. Also available is a highly accurate density sensor to detect the slightest change in diesel fuels integrity, this can be useful to detect if fuel has been tampered with or substituted, for example, with water or kerosene.



Laser counter

Precise laser for accurate, repeatable and consistent results.



Water sensors

A water sensor can be included to provide an accurate reading of moisture content in the fluid. This can be shown as %RH for oils and PPM for diesel fuels.



Improved fluid flow, pump feature set

We have adopted a high pressure internal gear pump throughout the range. The pump is protected via current draw/overload and temperature sensor/cut out. There is also a 2 stroke priming feature to evacuate air bubbles. All units can handle diesel through to oils up to 420 cSt viscosity. Common input can accept pressurized line feeds up to 350 Bar via a HP adaptor?



Trending software

All versions are supplied with a quick start guide along with a memory stick which contains the data logging template, graphs, ROC trending software and user manual. The powerful trending software shows real time cleanliness data in a graphical format transferred to a connected PC.



Internal memory

We've included built-in memory to capture results and store data, which can be easily transferred to a USB stick. Results show all sensors connected in a tabular and graphical format.



Case design

Lightweight and heavy-duty, the outer casing is ideal for working in the field.



Battery life

Compatible with a rechargeable battery, giving 6 hours of continual use. Fluid dependent, making Particle Pal perfect for field use.

FIRST FOR DIAGNOSIS

Prevention is the best cure. The FS9V2 family of products allows you to identify problem oils and fuels early.



THE PARTICLE PAL
FS9V2 FAMILY OF
PRODUCTS ARE
SUITABLE FOR A
**WIDE RANGE OF
APPLICATIONS.**

Hydraulic, Lubrication and modern Diesel Gel systems knowing the particulate cleanliness and water content data can prevent serious system failures and component damage. By testing oil and diesel Gel cleanliness in real time, the necessary protection can be put in place to protect sensitive components.



PLANT HUB



INJECTION
MOULDING



DATA CENTRE FUEL
TESTING



MANUFACTURING



AUTOMOTIVE INDUSTRY

SPECIFICATION TABLE

	FS9V2 <small>Particle Counting for oil and diesel.</small>	FS9V2 -HP <small>Particle Counting for oil includes high pressure reducing valve for connection to a high pressure system (max 350 bar).</small>	FS9V2 -RH <small>Particle Counting for oil with water sensor(%RH).</small>	FS9V2 -RH-HP <small>Particle Counting for oil with water sensor(%RH) include high pressure reducing valve for connection to a high pressure system(max 350 bar).</small>	FS9V2 -PPM <small>Particle Counting for diesel with a water sensor display'':PPM.</small>	FS9V2 -PPM -DEN <small>Particle Counting for diesel with a water sensor displaying PPM and density sensor, (kg/l).</small>
FLUID COMPATIBILITY						
Mineral Oils	✓	✓	✓	✓)()(
Organic Oils	✓	✓	✓	✓	✗)(
Synthetic Oil	✓	✓	✓	✓)()(
Diesel Fuel	✓)()()(✓	✓
DISPLAYED INFORMATION						
ISO 4406, SAE AS4059 & NAS 1638	✓	✓	✓	✓	✓	✓
Diatyve Humidity (RH%))()(✓	✓	✗)(
Water Parts Per Million(PPM))()()()(✓	✓
Density(kg/l))()()()()(✓
MODES OF OPERATION						
Bottle Sampling	✓	✓	✓	✓	✓	✓
Tank Sampling	✓	✓	✓	✓	✓	✓
High Pressure Live system connection (up to 350 bar))(✓)(✓	✗)(
MEMORY						
Internal Memory 512 lines of data (8.5 hours)	✓	✓	✓	✓	✓	✓
TRENDING/SOFTWARE						
Life trending via ROC software. All data can be exported to a .csv file.	✓	✓	✓	✓	✓	✓
USB Data Transfer	✓	✓	✓	✓	✓	✓

Also available is the Particle Pal Life. Monitoring Particulate, Water and Remaining Life of Oils. Over 500 oils profiled, sophisticated monitoring and off-site backup of all data.



**Approved Distributor for
Filtertechnik in Indonesia**

Website : www.fluidteknologi.com
 Email : sales@fti.co.id
 Tel : +62 21 8908 0197