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# FPS - Fluid Property Sensor

[Part # FPS2000](#)



Modern mobile equipment calls for a hydraulic fluid ensuring profitable and reliable operation. The FPS monitors online Dielectric, Density, Viscosity and temperature.

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## Technical Specifications

Operating Humidity:	n/a	Signal Output:	CAN Bus
Brand:	Parker	Specifications Met:	CE Certification
Division:	Hydraulic & Industrial Process Filtration Division	Sensing Method:	Tuning Fork
	EMEA	Accuracy:	n/a
Industry:	General Industrial	Cycle Time:	10 second
Technology:	Filtration, Hydraulics	Ingress Protection Rating:	IP67
Product Type:	Condition Monitor	Materials of Construction:	n/a
Product Style:	Viscosity Sensor	Body Material:	Stainless Steel
For Fluid Type:	Water/Oil Emulsions, Synthetic Oils, Petroleum	Seal Material:	Fluorocarbon
Operating Pressure:	25 bar, 375 psi	Port Size:	M14x1.5
Operating Temperature:	-40 to 125 °C, -40 to 257 °F	Port Type:	Metric
Maximum Fluid Temperature:	150 °C, 302 °F	ATEX Specifications Met:	n/a
Flow Rate:	Recessed Position Recommended	Length:	50 mm
Electrical Requirements:	12 to 24 VDC	Height:	73 mm
Communication Interface:	CAN J1939	Width:	30 a/f mm
Power Supply Voltage:	Max. 60 VDC	Weight:	350

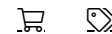
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## Item Information

The FPS is a novel fluid property sensor that will directly and simultaneously measure the viscosity, density, dielectric constant and temperature of fluids. Relying on patented tuning fork technology, the sensor monitors the direct and dynamic relationship between multiple physical properties to determine the quality, condition and contaminant loading of fluids such as engine oil, fuel, transmission and brake fluid, hydraulic, gears oils, refrigerants and solvents.

The multi-parametric analysis capability improves fluid characterization algorithms. The FPS provides in-line monitoring of fluids for a wide range of OEM and aftermarket installations including fluid reservoirs, process lines and pressurized high flow conduits (e.g., engine oil gallery applications that include on and off highway vehicles, HVAC&R, compressors, industrial equipment and turbines. A universal digital CAN compliant protocol provides easy to connect interface to main Host controller. A simple 4 pin connector allows for cost effective mounting





**Important note.**  
The Parker FPS does not use a “fingerprint” principle. Sensors using a “fingerprint” principle require up-front calibration in the fluid type subject to future analysis. This calibration can take up to 200 hours, during which time the aging of the oil can start and hence the calibrated reference is not accurate. When a different oil is applied, sensors using the “fingerprint” principle require new calibration. Parker's PFS sensor directly measures the important fluid properties without the need for calibration in-advance.

**Support**  
**Advantages**

- Industries**  
• Continuous measurement of important fluid properties  
• Early detection of fluid aging

- Services**  
• No up-front calibration required

- Solutions**  
• On board processor with real-time data analysis with 5, 10 or 24 volts supply

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Online Fluid Condition  
Sensor (FCS)



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