Fluid Property Sensor (FPS)
Kit Configuration

FLUID PROPERTY SENSOR OVERVIEW

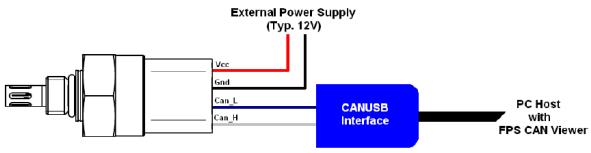
The FPS2800B12C4 is a novel fluid property sensor that will directly and simultaneously measure the viscosity, density, dielectric constant and temperature of fluids. Relying on patented tuning fork technology, the sensor monitors the direct and dynamic relationship between multiple physical properties to determine the quality, condition and contaminant loading of fluids such as engine oil, fuel, transmission and brake fluid, hydraulic and gear 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) for applications that include on and off highway vehicles, HVAC&R, compressors, industrial equipment and turbines. A universal digital CAN J1939 compliant protocol provides easy to connect interface to main Host controller. A simple 4 pin connector allows for cost effective mounting options.

Please Refer to document FPS2800B12C4 datasheet for detailed information on performance and features of the sensor.

TWO KIT CONFIGURATIONS

In order to provide plug and play tools for early tests of the Fluid Property Sensor, two kit configurations are proposed by Measurement Specialties:

- Kit 1: Data Viewer Kit provides all required equipments that allow direct plug-in, readings, data acquisition of the sensor through the customer PC interface. The CAN Viewer software is an ideal tool to realize stationary tests in laboratory conditions.



- Kit 2: Data Logger Kit provides all required equipments that allow direct plug-in of the sensor for data acquisition using a mobile CAN Logger interface. The CAN Logger interface is an ideal tool for “in field” testing on vehicles or mobile machines without any modification of the ECU software.

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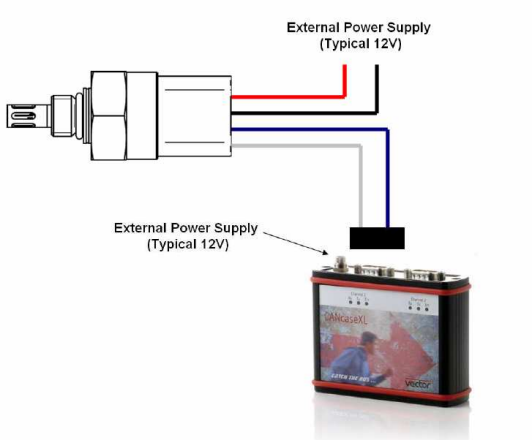

The two Kit configurations are detailed in the hereunder table.

COMPONENTS	DATA VIEWER KIT	DATA LOGGER KIT
Sensor	FPS2800B12C4	FPS2800B12C4
Standard Calibration	Standard Viscosity (18 cP @100℃)	
Specific Calibration	Upon customer request	
CONNECTING ELEMENTS		
From Sensor to power supply	FPS Cable (if requested an integrated 100V -240V to 12V power supply can be added to FPS Cable)	FPS Cable (if requested an integrated 100V - 240V to 12V power supply can be added to FPS Cable)
From Sensor to data saving system	FPS Cable + CAN to USB dongle (to connect to PC)	FPS Cable
ACQUISITION SYSTEM		
Data saving system	Customer PC	CAN LOGGER BOX
Software	CAN VIEWER software** (provided on USB key)	CAN LOGGER Software (integrated to the Box)
FPS DOCUMENTS*		
Documents included in the Kit	FPS Data Sheet	FPS Data Sheet
	FPS Installation Guide	FPS Installation Guide
	User Guide FPS CAN Viewer	User guide FPS CANcaseXL log

* Documents are electronically provided on a delivered USB key

** Following configurations are compatible: XP (SP1/2/3), Vista (no SP / SP1/2), not compatible with any 64bits versions

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ORDERING INFORMATION

- FPP800KIT1 for DATA VIEWER

- FPP800KIT2 for DATA LOGGER

Please refer to the following table to order the FPS Kit with the desired configuration:

Product Name	Reference	DATA VIEWER Kit	DATA LOGGER Kit
FPS2800 B12C4	FPP800 A110	X	X
USB Key	FPPCLEFUSB	X	X
CAN Logger Box	FPS CAN LOG		X
FPS Cable	HPP130LAB10	X	X
Power Supply (100-240V to 12V)	FPPPOWEREU	X	X
CAN-USB Dongle	FPSCANUSBC	X	
CAN VIEWER Software	FPL800CANV	X	
	P/N for order	**FPP800KIT1**	**FPP800KIT2**

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