1000 Contamination Sensor

Formerly Known as "TCM - TestMate Series"



Usable with FluMoS Mobile App when connected to the CSI-C-11

CSI-C-11 Compatible Product





Includes: Unit, FluMoS Software, Operation Manual and Calibration Certificate

Features and Benefits

- Measures Particles in Four Sizes: >4, >6, >14 and >21 microns
- In-line or Manifold Mounting
- ISO or SAE codes can be output in 4-20 mA analog signal
- Compatible with Standard Mineral Fluids & **Phosphate Esters**
- Display and Keypad can be rotated (up to 270°)
- Inlet and Outlet Ports are Interchangeable (bidirectional) (without manifold only)
- Recommended recalibration: Only every 2 years

Description

The Contamination Sensor 1000 (CS 1000) continuously measures solid contamination in hydraulic fluid. Enclosed in a 4-inch diameter case, the CS 1000 utilizes an optical sensor and measures particles in four sizes: >4, >6, >14 and >21 microns. Measurement results can be output as a contamination code according to ISO 4406:1999 or SAE AS 4059(D).

The CS 1000 is designed for connection to hydraulic and lubrication lines with pressures up to 5075 psi (350 bar) and viscosities up to 4635 SUS (1000 cSt). The unit requires that a small flow of oil (between 30 mL/min and 500 mL/min) is diverted for measurement purposes.

The CS 1000 provides the user with a smaller, tougher, and more versatile stationary sensor. It provides instantaneous readings and is able to self-diagnose continuously with error indication via the status LED. The attractive cost-to-performance ratio makes it especially applicable for OEM applications. Online, real-time condition monitoring allows you to have total predictive maintenance.

Specifications	Measuring Range:	Display ISO ranges between 9/8/7 and 25/24/23 Calibration within the range ISO 13/11/10 to 23/21/18		
	Contamination Output Code:	Standard: ISO 4406:1999 or SAE AS 4059(D) Optional: ISO 4406:1987; NAS 1638 and ISO 4406:1999; SAE AS 4059(D)		
	Self-Diagnosis:	Continuously with error indication via status LED		
	Inlet/Outlet:	5075 psi (350 bar) max		
	Connections:	Inlet: ISO 228 G1/4 Threaded Outlet: ISO 228 G1/4 Threaded		
	Sensor Flow Rate:	30 to 500 mL/min		
	Permissible Viscosity Range:	32 to 4635 SUS (1 to 1,000 cSt)		
	Fluid Temperature Range:	32°F to 185°F (0°C to +85°C)		
	Power Supply Voltage:	9 to 36 VDC residual ripple <10%		
	Accuracy:	+/- $\frac{1}{2}$ ISO class in the calibrated range		
	Power Consumption:	3 Watt max		
	Electrical Outputs:	4 to 20mA Analog; 2 to 10 V Analog (option) RS485		
	Electrical Specifications:	4 to 20 mA Analog output (max burden 330Ω); 2 to 10 V output (min. load resistor 820Ω) Limit switching output (Power MOSFET): max current 1.5A		
	Ambient Temperature Range:	-22°F to 176°F (-30°C to +80°C)		
TES:	Storage Temperature Range:	-40°F to 176°F (-40°C to +80°C)		
Models feature analog electrical	Relative Humidity:	95%, non-condensing max		
put. Additionally, electrical	Seal Material:	Mineral Oil: Viton Phosphate Ester: EPR		
tching output	Electrical Safety Class:	III (low voltage protection)		
be configured lert the operator	IP Class:	IP67		
out rising falling tamination level.	Weight:	2.9 lbs (1.3 kg)		
on® is registered lemark of	Mounting Position:	Recommended vertical installation with direction of flow south to north through CS 1000 or manifold block		
Point Dow				

NOTE

All M an ar outp an ele switc can b to ale abour conta

Viton trade DuPo Elastomers.

Contamination Sensor



Communication Kit

Description:

CSI-D-5

7632013

CS 1000 CS 1939

Features Enables the user to transfer data from CS 1000 to PC Enables user to change CS 1000 settings Enables user to have real time monitoring & data storage What's Included Converter box 115 VAC to 24 VDC adapter USB driver EluMac

Converter box, 115 VAC to 24 VDC adapter, USB driver, FluMoS software, communication & power cables, case

Features

20.0

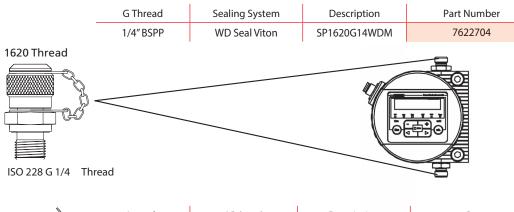
- For WLAN or LAN transmission of data.
- Addition of data stage capabilities.



Formerly Known as "TCM - TestMate Series"

Communication cable and power adapter can be ordered individually.





\rightarrow	Length	ΔP (max)	Description	Part
	inches (mm)	psi (bar)		Number
	6	6,500	SM4-1620-006	7612174
	(152)	(450)		
	35	6,500	SM4-1620-035	7612175
-+ - 5 Ø	(889)	(450)	51014-1020-035	/0121/5

CSI-C-11 Sensor Interface Module P/N 4066011 Description: **Power Adaptor** (PS5) P/N 7600801 Schroeder Check **TestPoint Options** for CS 1000 NOTES: In-line version of CS. In-line version cannot be mounted on manifolds **Microflex Hose** Options for CS 1000