CS 1000 Contamination Sensor

Formally 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).

DNV-G

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.

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: +/- 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) Storage Temperature Range: -40°F to 176°F (-40°C to +80°C) Relative Humidity: 95%, non-condensing max Seal Material: Mineral Oil: Viton[®] Phosphate Ester: EPR Electrical Safety Class: III (low voltage protection) IP Class: IP67 Weight: 2.9 lbs (1.3 kg) Mounting Position: Recommended vertical installation with direction of flow south to north through CS 1000 or manifold block

Specifications

NOTES:

All Models feature an analog electrical output. Additionally, an electrical switching output can be configured to alert the operator about rising falling contamination level.

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34 SCHROEDER INDUSTRIES

Contamination Sensor CS1



CS 1000

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, FluMoS software, communication & power cables, case

Features

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



Communication cable and power adapter can be ordered individually.





| \sim | Length inches (mm) | ΔP (max) psi (bar) | Description | Part Number |
|--------|-----------------------|-----------------------|--------------|----------------|
| | 6 (152) | 6,500 (450) | SM4-1620-006 | 7612174 |
| | 35 | 6,500 (450) | SM4-1620-035 | 7612175 |
| | (200) | (| | |

| CSI-C-TT | | | | |
|------------------------|-----------------------|--|--|--|
| Communication Kitr | | | | |
| CSI-D-5 | RBSA | | | |
| 7632013 | CSM | | | |
| | FCU | | | |
| | MCS | | | |
| | AS | | | |
| | SMU | | | |
| | СТО | | | |
| CSI-C-11 Senso | or ^{EPK} | | | |
| Interface Module | Trouble Check Plus | | | |
| P/N 4066011 | Check Plus | | | |
| | HMG2500 | | | |
| | HMG4000 | | | |
| | ET-100-6 | | | |
| | НТВ | | | |
| Description: | RFSA | | | |
| Power Adapto | HFS-BC | | | |
| (PS5) | HFS-15 | | | |
| P/N 7600801 | MFD-BC | | | |
| | MIFS, MIFD | | | |
| Re | etrofit System | | | |
| Schroeder | MFD-MV | | | |
| Check | MFS-HV | | | |
| for CS 1000 | AMS, AMD | | | |
| | FS | | | |
| NOTES | AMFS | | | |
| In-line version of CS. | KLS, KLD | | | |
| be mounted | МСО | | | |
| on mannolus | AKS, AKD | | | |
| L | SN, LSA, LSW | | | |
| | X Series | | | |
| Microflex Hose | OLF Compact | | | |
| | OLF | | | |
| | OLF-P | | | |
| | NxTM | | | |
| | VEU-F | | | |
| | IXU | | | |
| | Triton-A | | | |
| | Triton-E | | | |
| | NAV | | | |
| | SVD01 | | | |
| | SVD | | | |

CS 1000 Contamination Sensor

