



FMS-TCM-FC

TESTMATE® CONTAMINATION MONITOR

NFPA/T2/6/1
BURST & FATIGUE RATING

ISO 3968
Pressure Drop vs Flow

PREVENTIVE MAINTENANCE MAXIMUM EFFICIENCY

The TestMate Contamination Monitor (TCM) it's among the newest generation of particle monitors that continuously measure solid contamination in fluid. Enclosed in a 4 inch diameter case, the TCM 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 output as a contamination code according to ISO 4406 : 1999 or SAE AS 4059 (D).

The TCM is designed for connection to hydraulic and lubrication lines with pressures up to 4350 psi (300 bar) and viscosities up to 4635 SUS (1000 cSt). The unit requires that a small flow of oil (between 30 ml/min and 300 ml/min) is diverted for measurement purposes.



MEASURES PARTICLES in four sizes >4, >6, >14, >21 microns

DISPLAY & KEYPAD can be rotated

ISO OR SAE codes can be output in 4-20 mA analog signal

PIPE OR WALL mounting

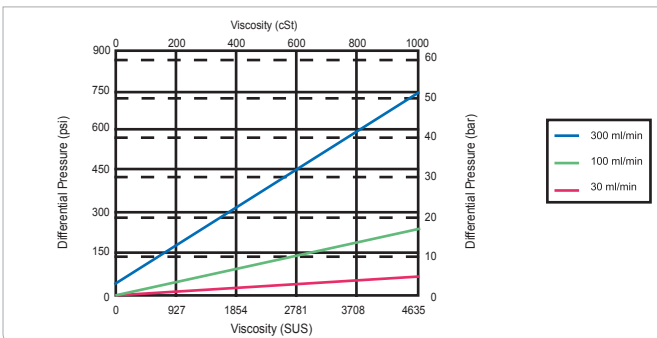
COMPATIBLE with Standard Mineral Fluids & Phosphate Esters

INLET & OUTLET PORTS are interchangeable (bi-directional)

FEATURES

TECHNICAL SPECIFICATIONS

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|------------------------------------|--|
| Measuring Range: | Display ranges between ISO 28/27/26 and 9/8/7 Calibration within the ranges ISO 23/21/19 to 13/11/10 |
| Self-Diagnosis: | Continuously with error indication via status LED |
| Inlet/Outlet Connections | 4350 psi (300 bar) max. Inlet: ISO 228 G1/4 Threaded Outlet: ISO 228 G1/4 Threaded |
| Sensor Flow Rate | 30 to 300 ml/min |
| Permissible Viscosity Range | 0 to 4635 SUS (1 to 1,000 cSt) |
| Fluid Temperature Range | 32° to 185° F (0° to +85° C) |
| Power Supply Voltage | 9 to 36 VDC residual ripple <10% |
| Power Consumption | 3 WATT max. |
| Electric Outputs | 4 to 20mA Analog; 0 to 10V Analog (option) RS485 for communication with CoCos 1000 software |
| Electrical Specifications | 4 to 20 mA Analog output (max. burden 3000); 0 to 10 V output (min. load resistor 8200) Limit switching output (Power MOSFET): max. current 1.5A |
| Ambient Temperature Range | -22° to 176° F (-30° to +80° C) |
| Storage Temperature Range | -40° to 176° F (-40° to +80° C) |
| Relative Humidity | max. 95%, non-condensing |
| Seal Material | Mineral Oil: FPM Phosphate Ester: EPDM |
| Electrical Safety Class | III (low voltage protection) |
| IP Class | IP67 |
| Weight | 2.9 lbs (1.3 kg) |



Provides the user with a smaller, tougher and more versatile stationary sensor that's 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.

