Specifications

Measuring Range:
Display ISO ranges between 25/24/23 and 9/8/7
Calibration within the range ISO 13/11/10 to
23/21/18

Contamination Output Code:
Standard: ISO 4406:1999 or SAE AS 4059(D)

Self-Diagnosis:
Continuously with error indication via status LED

Max Pressure:
3500 psi (241 bar) max

Sensor Flow Rate:
30 to 300 ml/min

Permissible Viscosity Range:
0 to 4635 SUS (1 to 1,000 cSt)

Fluid Temp. Range:
32°F to 185°F (0°C to 85°C)

Power Supply Voltage:
9 to 36 VDC residual ripple <10%

Power Consumption:
3 Watt max

Electrical Outputs:
4 to 20 mA Analog
RS485 for communication with FluMoS Light
Software

Electrical Specifications:
4 to 20 mA Analog output (max burden 330 Ω)
Limit switching output (Power MOSFET): max. current 1.5A

Ambient Temp. Range:
-22°F to 176°F (-30°C to 80°C)

Storage Temp. Range:
-40°F to 176°F (-40°C to 80°C)

Relative Humidity:
95%, non-condensing max

Seal Material:
Mineral Oil: Viton®

Electrical Safety Class:
III (low voltage protection)

IP Class:
IP67

Features

■ Measures particles in three sizes: >4, >6 and >14 digitally displayed
■ Display and keypad can be rotated
■ ISO or SAE codes can be output in 4-20 mA analog signal
■ Compatible with standard mineral fluids

What’s Included

■ TCM-D-H-A-M (4-20mA only)
■ Manifold, TCM-C-3M
■ 2 pcs. 4mm 1620 microflex hose
(SAP #7612175)
■ TWS-C (optional)
■ TCM & TWS-C (optional) Power & Communication Cable(s) and 2
  test points (p/n 7622704) for installation into hydraulic system
■ FluMoS software

Dimensions:

Description

The TCM is designed for connection to hydraulic and lubrication lines with pressures up to 3500 psi (241 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.

Ordering Information:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>SAP Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCM-FC</td>
<td>Sensor w/display, petroleum based fluids, 4-20 mA w/flow control flange</td>
<td>7623773</td>
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<tr>
<td>TCM-FC-W</td>
<td>Sensor w/display, petroleum based fluids, 4-20 mA w/flow control flange and water sensor without display</td>
<td>7623774</td>
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</tbody>
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