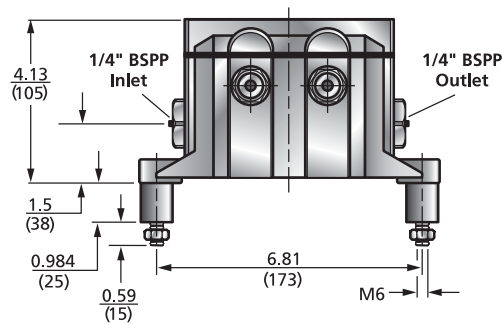
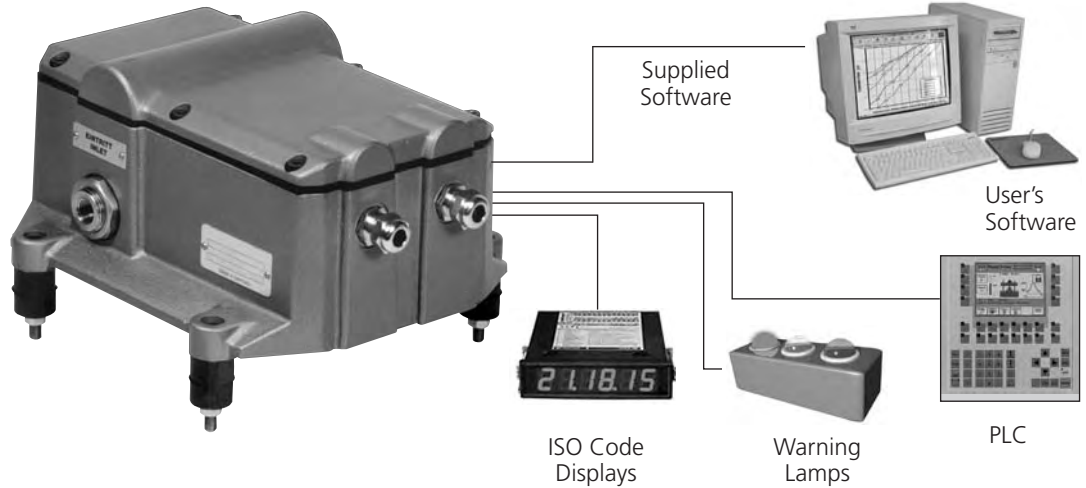
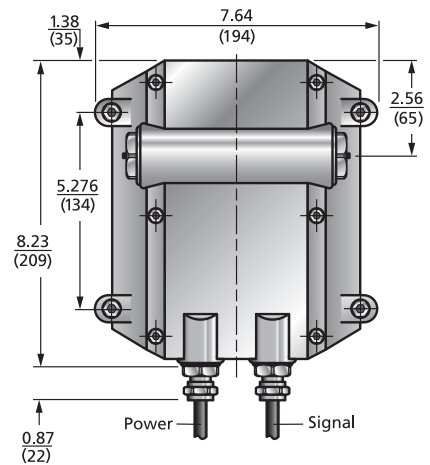


TestMate® Series

TIM TestMate® In-Line Counter



Metric dimensions in ().



Description

The TIM from Schroeder is an in-line contamination counter capable of transmitting information regarding fluid cleanliness in various formats to a wide variety of devices in real time. Software is included to transmit data to a PC. Alternative user-supplied output devices include PLCs, individual display units, and warning lights via trigger points. This unit is intended for critical systems where continuous contamination monitoring is a must.

Features

- Compatible with hydraulic fluids, lube oils, and fuels
- Data can be transmitted to various output devices to perform specific functions, such as illuminate a warning light, sound an alarm, activate an auxiliary filtration system, or even shut down equipment
- The robust sensor utilized in the TIM is not susceptible to dark fluids, pressure spikes, vibrations, or high temperatures, and is identical to that used in the TPM
- Small size makes installation unobtrusive

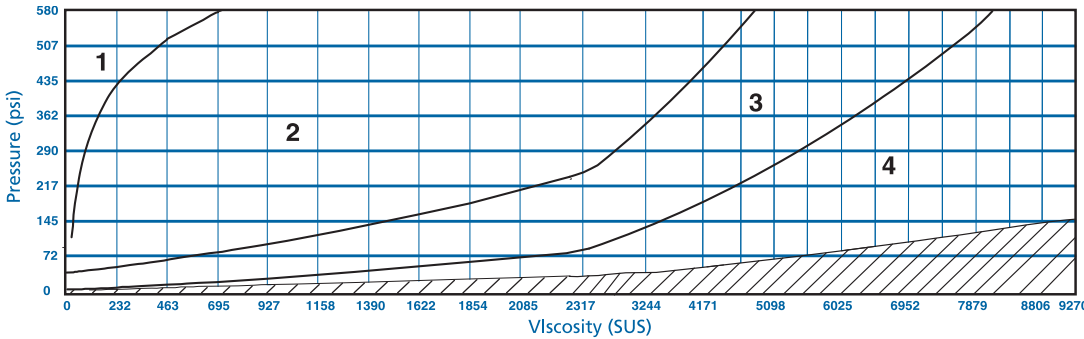
Applications

- Paper and steel mills
- Power generation plants
- Lube oil systems
- Gear boxes

TestMate® Series

Particle Size Channels: 4 $\mu\text{m}_{(c)}$ / 6 $\mu\text{m}_{(c)}$ / 14 $\mu\text{m}_{(c)}$ / 21 $\mu\text{m}_{(c)}$
Measurement Range: ISO 13/11/10 to 23/21/18 (SAE 2 to 12)
Indication Range: ISO 12/10/9 to 25/23/21 (SAE 2 to 15)
Accuracy: $\pm 1/2$ class (ISO, SAE)
Calibration: ISO 11943
Recalibration: 1 to 2 years, dependent on customer's quality policy
*Max Operating Pressure (outlet): 145 psi (10 bar)
*Max Operating Pressure (inlet): 580 psi (40 bar)
*Max Surge Pressure: 5070 psi (350 bar)
Connections: Inlet: Thread G 1/4, ISO 228 Outlet: Thread G 1/4 ISO 228
Sensor Flow Rate: 10 to 200 mL/min
Total Flow Rate: 10 to 800 mL/min (pressure dependent)
Fluid Temperature Range: 32°F to 158°F (0°C to 70°C)
Power Supply: 24 VDC $\pm 25\%$
Power Consumption: 25 Watt max
Electrical Output: <ul style="list-style-type: none"> • 3 relay outputs: 1 x state of readiness; 2 x limit; • PLC output; • Additional electrical output (see model code)
Ambient Temperature Range: 32°F to 131°F (0°C to 55°C)
Storage Temperature Range: -4°F to 185°F (-20°C to 85°C)
Relative Humidity: 90%, (non-condensing) max
Electrical Safety Class: III (low voltage protection)
IP Class (Protection Type): IP65
Weight: 8.8 lb (4 kg)

*At pressures beyond maximum operating pressure specified above, the sensor will not measure properly. However, the unit can handle pressure spikes up to 5070 psi without incurring damage to the sensor.



How to Build a Valid Model Number for a Schroeder TIM:

BOX 1 BOX 2 BOX 3 BOX 4
TIM - - -

Example: NOTE: One option per box

BOX 1 BOX 2 BOX 3 BOX 4
TIM - **H** - **2** - **1**

BOX 1	BOX 2	BOX 3	BOX 4
In-Line Monitor	Fluid Type	Pressure/Viscosity Range	Output
TIM	H = Hydraulic Oil E = Phosphate Ester	1 2 3 4	1 = 4-20mA 3 = RS-485 (enables communication with software) 4 = PLC Output 5 = Ethernet

Specifications

- TCM
- TCM-FC
- TMU
- TPM
- TIM**
- CTU
- TWS-C
- ET-100-6
- HMG 3000
- EWC
- EPK
- HTB
- GS
- Trouble Check Plus
- Test Points
- Adapters
- Hose Joiners
- Microflex Hose
- Pressure Limiters
- Pressure Gauges
- Test Kits
- Probalizer
- Filtration Station
- MFS, MFD
- AMS, AMD
- KLS, KLD
- AKS, AKD
- KLC
- X Series
- MTS
- HFS
- SVD
- TDS
- IXU
- Appendix

Pressure/Viscosity Range

Model Number Selection