

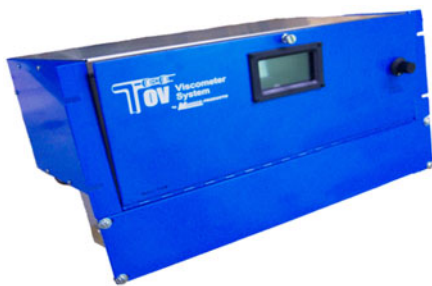


the TOV viscometer

Transducer

The TOV Transducer is the electronic component of the TOV System.

- Constant feedback with TOV Probe to provide real-time viscosity measurement.
- Monitors changes in power needed by the Probe and converts these into changes in the viscosity.
- Conditions Probe signal to output “real” viscosity changes.
- Located in or near the control room (control room environment)



Model TOVM 1.4

- Most complete Transducer available
- Includes 4 outputs (See specifications)
- Includes Multi-feature option
- Standard Pressure Compensation
from customer provided pressure signal (4-20 mA)



Model TOVL 1.1

- Standard for one product use
- Includes 2 outputs (See specifications)
- Optional Pressure Compensation
from customer provided pressure signal (4-20 mA)

New Model SC-03 Slide Chassis

- New features
- Standard for Model TOVM 1.4 and TOVL 1.1 Transducers
- Available as upgrade for earlier models

Built-in TOV System checks

- Probe Function Checks
- Probe Simulator



Up to 4 Outputs available

- 4-20 mA outputs
- Isolated signals

Front Access adjustments and Connections



Model SC-03 Slide Chassis

New Features

- Built-in Differential Meter
- Automatic Start-up Power Supply Checks
- Manual Power Supply Checks
- New LCD Display

Feature/Specification	Transducer Model		
	TOVM 1.4	TOVM 1.3	TOVL 1.1
Processor Model	TOVM 1.4	TOVM 1.3	TOVL 1.1
Power Input from Field: 110VAC 50/60Hz Service	√	√	√
Maximum Power Output: 0.5 Amps from P.S.	√	√	√
<u>Analog Output Signals (4-20 mA)</u>	<u>4</u>	<u>4</u>	<u>2</u>
Compensated Viscosity	√	√	√
Uncompensated Viscosity	√	√	
Broad Temperature Output Ranges Available:			
• 0 to 100°C (32 to 212°F)			
• 100 to 200°C (212 to 392°F)			
• 200 to 300°C (392 to 572°F)	√	√	
• 250 to 350°C (482 to 662°F)			
• 0 to 350°C (32 to 662°F)			
Compensating Temperature: +/-5°C (9°F) from Temperature Compensation setpoint	√	√	√
Pressure Compensation (Press input 4-20MA by customer): Max Press Comp: Span of Incoming Pressure Transmitter	Standard	Standard	Optional
Linear Temperature Compensation from Probe RTD signal within +/- 14°C (57.2°F) from setpoint	Standard	Standard	Standard
Transducer Accuracy: ±0.1% of reading	√	√	√
Transducer Precision: ±0.1% of reading	√	√	√
Multi-Features	Standard	Standard	Not Available
In-line Probe Performance Tests for testing Probe operating parameters:	Standard	Standard	Standard
Built-in Simulator feature	Standard	Standard	Standard
Built-in Calibration features	Standard	Standard	Standard
Push Button Compensating Temperature Balance	Standard	Standard	Standard
LED Readout of Direct Process Temperature	Standard	Standard	Standard
New Slide Chassis Model SC-03	Standard	Not Available	Standard
Differential Voltage Meter	√	Not Available	√
Start-up Power Checks	√	Not Available	√
On-line Power Supply Checks	ALL	Limited	ALL
LCD Meter Display	√	Not Available	√
Front panel access to Transducer settings	√	√	√
Microprocessor features	√	√ Limited	√
Noise reduction conditioning	√	√	√
CE Compliant Availability	Not Available	√	Not Available

For more information, please contact:

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