

In-line viscometer(For embedded applications)

FVM70A Series

Embedded applications inline viscometer

FVM70A-ST

Compact inline viscometer can also be used in the lab

FVM72A



Summary

- FVM70A is a torsional oscillation viscometer of inline process applications. It measures the viscosity and temperature in real time and continuously attached to tank, and pipe with the flange.
- Maintenance-free viscometer due to piezoelectric ceramic in the driving unit.
- Viscosity sensor portion (probe) has become a full sealed structure, non-explosion proof type is also possible to soak in the liquid the entire probe addition to being attached at the flange.
- It is possible to viscosity measured in flow state of liquid by attaching to the pipe that the flow of the liquid and the tank is agitated.

Feature

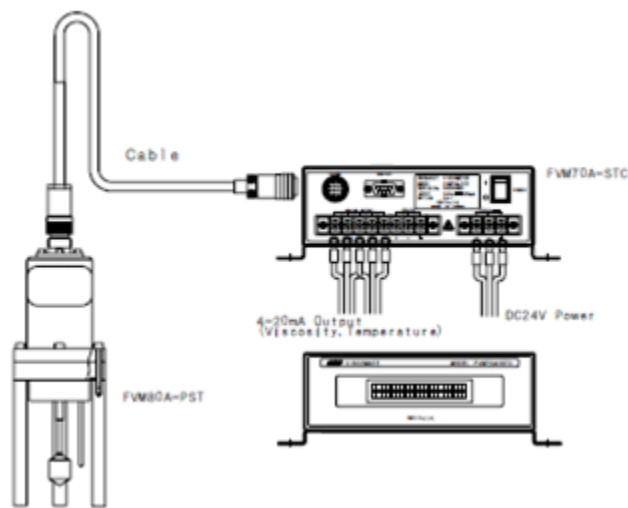
FVM70A-ST

- High precision is achieved by downsizing the technology of FVM80A series
- Adopts DC24V to be able to share the same supply as the control equipment
- By adopting the same probe and FVM80A / FEM-1000V, standardization of piping design is feasible.

FVM72A

- High precision is achieved by downsizing the technology of FVM80A series
- It uses an AC adapter, making it easier to use as a lab machine.
- Downsized in combination with the VM-200T2, T3 probe.

System configuration FVM70A-ST



Specifications

TYPE	FVM70A-ST		
	L-Type *Note 1	M-Type *Note 1	H-Type *Note 1
Measuring Range	0.5~1000mPa·s	10~5000mPa·s	500~20000mPa·s
Accuracy	±2%(Reading) *Note 2		
Repeatability	±1%(Reading) *Note 2		
Temperature Range	0~100°C		

Wetted temperature range	0~70℃
Calibrating method	Calibration with Standard Liquids for Calibrating Viscometers(JIS Z8809-2011)
Viscosity display	3-digit LCD display (Without decimal point)
Temperature display	3-digit LCD display (Without decimal point)
System requirements	10~40 ℃, 20~80%RH(No condensation)
Analog output	4~20mA viscosity ×1 temperature ×1
Digital output	RS232C interface output
Power	Input: DC24V 700mA
Probe mounting size	Insertion hole diameter: Φ46、Mounting bolt: Φ60 on the circumference, M4 ×4 pieces
Wetted Materials	Flange: SUS304, the vibrator part: SUS316
Weight and Dimensions	Probe:Φ46・Φ70×L190[mm](including a connecting portion), approximately 1.4kg
	Controller: H72xW220xD220[mm] (except the connecting portion and terminal block) approximately 1.7kg
Accessories	Connecting cable (5m) *Note 3, manual

*Note1 Select range L, M, H range of measurement.

*Note2 Measurement condition: At the room temperature using a JISZ8809 viscosity calibration standard liquids, measured with stirring at a liquid temperature of 23 ± 3 °C by stirrer or etc.

*Note3 Maximum 10m, up to 20m can be extended (paid option)

*Option (paid)

Teflon coated probe
(Probe: FVM80A-PST-T02)



2S ferrule installation
(Probe: FVM80A-PST-F01)



TYPE	FVM72A-VM-200T2			FVM72A-VM-200T3		
	L-Type *Note 1	M-Type *Note 1	H-Type *Note 1	L-Type *Note 1	M-Type *Note 1	H-Type *Note 1
Measuring Range	0.5~ 1000mPa ・s	10~ 5000mPa ・s	500~ 20000mPa ・s	0.5~ 1000mPa ・s	10~ 5000mPa ・s	500~ 20000mPa ・s
Accuracy	±2%(Reading) *Note 2					
Repeatability	±1%(Reading) *Note 2					
Temperature Range	0~100°C					
Wetted temperature range	0~70°C					
Calibrating method	Calibration with Standard Liquids for Calibrating Viscometers (JIS Z8809-2011)					
Viscosity display	3-digit LCD display (Without decimal point)					
Temperature display	3-digit LCD display (Without decimal point)					
System requirements	10~40 °C, 20~80%RH (No condensation)					
Analog output	0~5V viscosity × 1 temperature × 1					
Digital output	RS232C interface output					
Power	AC adapter (Input: AC100~240V, Output: DC9V 2,600mA)					
Probe mounting size	Insertion hole diameter: Φ35(T3,T2), Mounting bolt: Φ50(T3) on the circumference, M4×4 pieces(T3)					
Wetted Materials	Flange: SUS304, the vibrator part: SUS316					

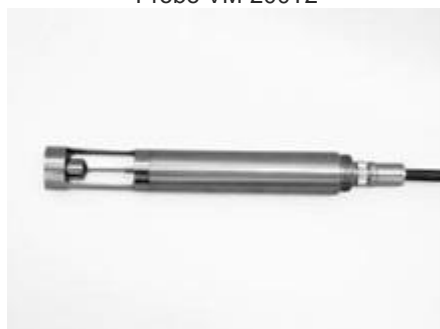
Weight and Dimensions	Probe:Φ34 (T2) ・ Φ70 (T3 flange) xL220 (including a connecting portion) approximately 0.75kg
	Controller: H72xW220xD220[mm] (except the connecting portion and terminal block) approximately 1.7kg
Accessories	Connecting cable (5m) *Note 3, manual
Option	Temperature sensor (Pt)

*Note1 Select range L, M, H range of measurement.

*Note2 Measurement condition: At the room temperature using a JISZ8809 viscosity calibration standard liquids, measured with stirring at a liquid temperature of 23 ± 3 °C by stirrer or etc.

*Note3 Maximum 10m, up to 20m can be extended (paid option)

Probe VM-200T2



Probe VM-200T3

