

THERMOSET MIVI

On-line viscosity measurement of any fluid at a required constant temperature

Short response time

No extra installation

Insignificant maintenance (½ day / year)

Reliable and Repeatable

Small size, Usual power, Optional density measurement

**World most reliable and rugged
viscosity measurement at
reference temperature** (ASTM correlated)



TECHNICAL CHARACTERISTICS

Viscosity range (at reference temperature)	1 – 100 mPa.s ; 10 – 1000 mPa.s ; 100 – 10 000 mPa.s
Repeatability	±0.5% full range
Response time	2 to 10 min
Delivered information	Digital display for viscosity and temperature Outputs: 0/4–20 mA DC on 500 ohms galvanically isolated RS 485 link Viscosity and temperature alarms Other possibilities on request. Consult us.
Operating conditions	Maximal temperature at the cell: 200 °C Reference temperature: according to the requirement Maximal inlet pressure: 16 bars Maximal outlet pressure: 40 to 120 bars according to product viscosity
Flow	volume: 0.150 l - rate: 20 l / h
Ex-proof : ATEX	II 2 G, IIB T3...T6 or II 3 G, IIB T2 (depending on fluid temperature)
Process connection	standard flanges DN 10 PN 40 (any other on request)
Required power	230 Vac, single phase, 50-60 Hz, 1 kVA pressurized air : 7 bars, 0.5 m3/h
Options	Density measurement Incorporated cleaning loop Any specific request

Principle

Sofraser is the inventor of the vibrating-type viscometer at resonance frequency, patented in 1981, that is nowadays world widely considered as the most reliable in process.

The active part of the sensor is a vibrating rod, held in oscillation at its resonance frequency by a constant electrical power.

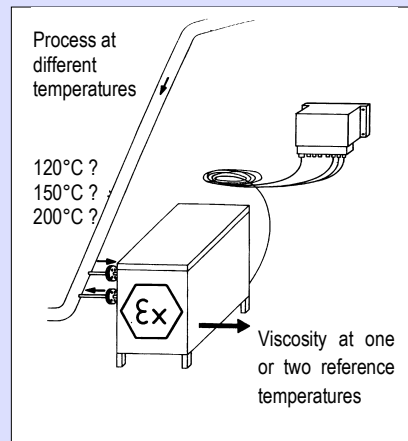
The vibration amplitude varies according to the viscosity of the product in which the rod is immersed.

THERMOSET MIVI is composed of 2 main parts:

1) One compact cell, stainless steel made, where the product flows, reaches the required temperature, then viscosity measured

2) One electronic cabinet, to be installed in safe area, or control room, monitoring the cell circuits, controlling the fluid temperature, processing viscosity and temperature information, providing their digital display and their corresponding analog and digital outputs.

Reprogrammable with memory card or configuration software.



Outside installation possible

Linked by means of one special cable (viscosity and temperature signals) and by usual cables (monitoring circuits). Any length available.