

## VISCOSITY AND TEMPERATURE TRANSMITTER



## TYPICAL APPLICATION FIELDS

Food processing

Printing: inks, varnishes

Packaging: cardboards, glues, inks

Coating: paints, lacquers

Mixing: detergents, hygiene and care products

Whatever your industry, we understand and develop solutions for many applications. For a personalized approach, contact us at **instruments@sofraser.com** 

## INSTANTANEOUS AND CONTINUOUS VISCOSITY AND TEMPERATURE MEASUREMENT

The Sofraser **9200** Viscosity and Temperature Transmitter offers state of the art technology and a new design based on 2007 Sofraser patent. The **9200** electronic cabinet processes the vibration of Sofraser **MIVI** sensor.

- **Easy-to-handle electronics**, with standardized outputs and adjusted calibration, the Sofraser **9200** transmitter is the ideal instrument for standard process application.
- **Constant display of the viscosity and temperature**. More than offering visual security in your production, it processes the amplitude variations in order to deliver a linear viscosity response on a digital display.
- Basic controls and customization features. Raw data can be displayed and current outputs checked for easy on field diagnosis. Choice of the units and activation of the correlation table are complementary features allowed by 9200.
- Easy connection to any data acquisition system or process controller, for a precise reporting and control with analog and digital outputs.
- **Simple mounting**, it can be fitted on any control panel to optimize your process space.



STANDARD FEATURES AND SPECIFICATIONS	
Inputs	<ul><li>Viscosity (analog MIVI sensor)</li><li>Temperature (Pt100 probe)</li></ul>
Outputs	<ul> <li>Two independent for viscosity and temperature: 4 - 20 mA ± 0,1 %; Z max.: 350 Ω</li> <li>RS 485, maximum cable length 1000 m, 1 twisted pair cable, 9600 baud</li> </ul>
Display	<ul> <li>2-line alphanumeric backlighting LCD screen</li> <li>2 digital buttons</li> <li>Effective dimensions: 64 mm x 15 mm</li> </ul>
Operating conditions	<ul> <li>Working temperature: 0 to 40 °C</li> <li>Process temperature: linearization of viscosity signal by mathematical model and correction of sensor thermal drift up to 200 °C</li> <li>Watertightness: IP20</li> <li>Sensor / Electronic box cable: 3 m (more on request)</li> <li>To be installed in a safe area with stable temperature</li> </ul>
Dimensions & characteristics	<ul> <li>Panel dimensions: 96 mm x 48 mm</li> <li>Total depth: 120 mm</li> <li>Weight: 240 g</li> <li>Panel mounting with 2 screws</li> </ul>
Power	• 24 VDC (± 2.4 V, stabilized and filtered)
Regulatory	CE marked (European conformity)
Options Accessories	<ul> <li>One calibration point at viscosity and process temperature (up to 100 °C)</li> <li>Insertion in an Ex-proof box, for use in hazardous areas</li> <li>Insertion in a watertight box (IP65)</li> <li>Power supply 88 to 264 VAC - 24 VDC</li> <li>Sofraser communication software (data logging, advanced settings, 4/20mA outputs, correlation table,)</li> </ul>

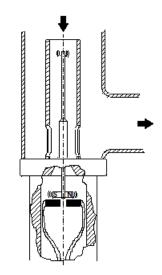
## 9200 Viscosity and Temperature Transmitter

In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency also called tuning-type.

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

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

Sofraser remains unsurpassed regarding process reliability and accuracy.



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