

## 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](mailto: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.



## 9510 VISCOSITY & TEMPERATURE TRANSMITTER

### STANDARD FEATURES AND SPECIFICATIONS

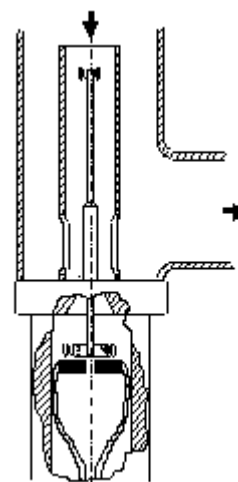
Inputs	<ul style="list-style-type: none"> <li>• Viscosity (analog MIVI sensor)</li> <li>• Temperature (Pt100 probe)</li> </ul>
Outputs	<ul style="list-style-type: none"> <li>• Two independent for viscosity and temperature: 4 - 20 mA <math>\pm</math> 0,1 %; Z max.: 350 <math>\Omega</math></li> <li>• RS 485, maximum cable length 1000 m, 1 twisted pair cable, 9600 baud</li> </ul>
Display	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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	<ul style="list-style-type: none"> <li>• 24 VDC (<math>\pm</math> 2.4 V, stabilized and filtered)</li> </ul>
Regulatory	<ul style="list-style-type: none"> <li>• CE marked (European conformity)</li> </ul>
Options Accessories	<ul style="list-style-type: none"> <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> <li>•</li> </ul>

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.



CE

