

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

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.

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



9200 Viscosity and Temperature Transmitter

STANDARD FEATURES AND SPECIFICATIONS

Inputs	<ul style="list-style-type: none"> • Viscosity (analog MIVI sensor) • Temperature (Pt100 probe)
Outputs	<ul style="list-style-type: none"> • Two independent for viscosity and temperature: 4 - 20 mA \pm 0,1 %; Z max.: 350 Ω • RS 485, maximum cable length 1000 m, 1 twisted pair cable, 9600 baud
Display	<ul style="list-style-type: none"> • 2-line alphanumeric backlighting LCD screen • 2 digital buttons • Effective dimensions: 64 mm x 15 mm
Operating conditions	<ul style="list-style-type: none"> • Working temperature: 0 to 40 °C • Process temperature: linearization of viscosity signal by mathematical model and correction of sensor thermal drift up to 200 °C • Watertightness: IP20 • Sensor / Electronic box cable: 3 m (more on request) • To be installed in a safe area with stable temperature
Dimensions & characteristics	<ul style="list-style-type: none"> • Panel dimensions: 96 mm x 48 mm • Total depth: 120 mm • Weight: 240 g • Panel mounting with 2 screws
Power	<ul style="list-style-type: none"> • 24 VDC (\pm 2.4 V, stabilized and filtered)
Regulatory	<ul style="list-style-type: none"> • CE marked (European conformity)
Options Accessories	<ul style="list-style-type: none"> • One calibration point at viscosity and process temperature (up to 100 °C) • Insertion in an Ex-proof box, for use in hazardous areas • Insertion in a watertight box (IP65) • Power supply 88 to 264 VAC – 24 VDC • Sofraser communication software (data logging, advanced settings, 4/20mA outputs, correlation table, ...)

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.

