



Typical application fields

- **Food & beverage:** dairy products, sauces, emulsions
- **Coating:** paints, lacquers, inks, varnishes
- **Chemistry:** polymers, detergents, surfactants
- **Cosmetics:** creams, gels, pastes
- **Petroleum:** oil, fuels, lubricants

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

THE COMPACT PROCESSOR FOR VISCOSITY AND TEMPERATURE MONITORING

Sofraser's **9510 viscosity and temperature processor** receives signals from the digital transducer (9000 Numeric) of a MIVI viscometer and displays the fluid's real-time viscosity and temperature.

- **User-friendly display:** The **9510 viscosity and temperature processors** offer instantaneous and continuous display in value, bar graphs as well as relevant equipment information.
- **Personalized and intuitive use:** Security codes, offset adjustment, viscosity value filtering, and viscosity and temperature Min/Max values and units are easily accessed and programmed on the detailed settings menu.
- **Additional 9510 functions:** Viscosity and temperature calibration features. Viscosity calibration table with manual or assisted filling feature. Temperature calibration with formula.
- **Improve process management and production:** Programmable analog outputs and alarm relays increase viscosity and temperature measurement use.

... / ...



9510 Viscosity & Temperature Processor

Standard Features and Specifications

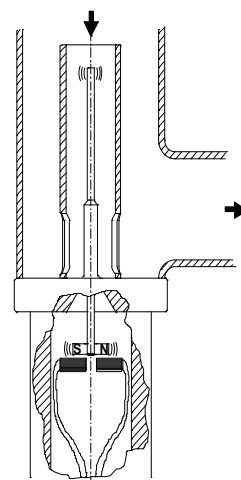
Version	<ul style="list-style-type: none"> 9510 Viscosity and Temperature Processor For 1 MIVI 9000 viscometer, with 1 parameters set
Inputs	<ul style="list-style-type: none"> 1 x RS485 (RJ-11), for Sofraser digital transducer board
Resolution	<ul style="list-style-type: none"> Between 0,1% and 0,5 % of measurement from 10% to 90% of the full scale range
Outputs	<ul style="list-style-type: none"> 2 x 4 -20 mA single-ended outputs: for viscosity and temperature, $Z_{max} = 500\Omega$, operational error limits $\pm 0,2\%$ 1 x RS485 (RJ-11), 2 wires, 1200 m max / 3900 ft max
Relays	<ul style="list-style-type: none"> 5 x NO (Normally Open) relays for low and high alarms and diagnosis Power cut-off 3A, 8A max per common, 250 VAC or 30 VDC
Screen & Display	<ul style="list-style-type: none"> Effective screen dimensions: 128 x 64 pixels Keyboard 16 keys Display of instantaneous values, bar graphs
Operating conditions	<ul style="list-style-type: none"> Working temperature: 0 to 50 °C / 32 to 122°F 5% to 95% RH (non condensing) Front panel IP65 / NEMA 4X - Back panel IP20
Dimensions & characteristics	<ul style="list-style-type: none"> Panel dimensions: 96 mm x 96 mm / 3.78" x 3.78" Total depth: 64mm / 2.52" Weight: 317 g / 0.634 lb Panel cut-out: 92 mm x 92 mm / 3.622" x 3.622" On Din Rail mounting possible
Security	<ul style="list-style-type: none"> Configuration and parameters password-secured Parameters backup: 7 years on battery
Power input	<ul style="list-style-type: none"> 24 VDC (21,6 to 26,4 VDC)
Regulatory	<ul style="list-style-type: none"> CE marked (European conformity)
Accessory options	<ul style="list-style-type: none"> Power supply: Din-rail type 88 to 264 VAC – 24 VDC Power supply: universal plug type 100 to 240 VAC – 24 VDC

In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency.

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.



SOFRASER

ZI, 15 rue Nobel
45700 Villemandeur - France

info@sofraser.com - www.sofraser.com

+33 (0) 238 85 77 12 - Fax +33 (0) 238 85 99 65