

## MULTI-SENSORS PROCESSOR



*Dynamic & kinematic viscosity, density, temperature, TCV*

### TYPICAL APPLICATION FIELDS

Chemistry: polymers, detergents, surfactants

Oil & Gas: fuels, lubricants

Coating: paints, lacquers

Cosmetics: creams, gels

Printing & Packaging: inks, varnishes, cardboard glues, adhesives

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)

### POWERFUL MULTI-SENSORS HMI

The **Sofraser 9710 processor** makes it possible to group the information of up to 4 separate measuring points in one single place and screen. 9710 receives and processes the data from up to 4 MIVI+9000 viscometers while accurately displaying the physical properties of the products.

- **One interface & easy-to-handle electronics:** 9710 is the simple and economic solution for monitoring the information from several different sampling points.
- **Improved process management:** With its analog and digital outputs, the 9710 can be customized to specific process control needs. All settings, including alarms and relays, can be set individually in order to achieve efficient process control.
- **Secure access:** The 9710 configuration and parameters are password-secured according to authority level.
- **Instantaneous viscosity & temperature display:** In addition to precise viscosity and temperature values, the 9710 offers visual confirmation via bars or graphs. Additional features as temperature compensated viscosity and end-users correlations are available in standard. On request the fluids densities can be measured and displayed.
- **User-friendly menu:** The touchscreen and 5 function keys provide intuitive use and facilitate the simple switch from one MIVI+9000 viscometer to another.



## 9710 MULTI-SENSORS PROCESSOR

### STANDARD FEATURES AND SPECIFICATIONS

Inputs	<ul style="list-style-type: none"> <li>1 x RS485 input (master) for up to 4 MIVI+9000 viscometers – Maximum cable length: 1200 m / 3940 feet</li> </ul>
Onboard Outputs	<ul style="list-style-type: none"> <li>Two 4-20mA single ended current outputs (500 ohm max, +/-0.2%, 12 bits)</li> <li>8 relays (30VDC, 250VAC, 3A, per common 8A, resistive)</li> <li>1 x RS485 output (slave) MODBUS RTU</li> <li>1 slot for micro SD card</li> </ul>
Screen & Display	<ul style="list-style-type: none"> <li>4.3", LCD illuminated, color touchscreen (480 x 272 pixels)</li> <li>5 function keys</li> <li>Display of viscosity and temperature instantaneous values, bars or graphs</li> <li>Relays status display</li> <li>Output status display</li> </ul>
Operating conditions	<ul style="list-style-type: none"> <li>Working temperature: 0 to 50 °C / 32 to 122 °F</li> <li>Front panel IP65 / Back panel IP20</li> </ul>
Dimensions & characteristics	<ul style="list-style-type: none"> <li>Dimensions: 136 x 105.1 mm / 5.35 x 4.13 inch</li> <li>Total depth: 68.6 mm / 2.68 inch</li> <li>Weight: 400 g / 0.9 lbs</li> <li>Parameters backup: 7 years on battery</li> </ul>
Security	<ul style="list-style-type: none"> <li>Configuration and parameters password-secured</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>24 VDC – 220 mA – 7W max.</li> </ul>
Regulatory	<ul style="list-style-type: none"> <li>CE marked (European conformity)</li> </ul>
Options	<ul style="list-style-type: none"> <li>Output extension set (6 current outputs for viscosity and temperature, external modules)</li> <li>Additional current outputs (6 current outputs, external module, to be combined with extension set)</li> <li>Possibility of 0-10 V outputs instead of 4-20 mA outputs</li> <li>Insertion of processor in IP65 watertight enclosure</li> </ul>

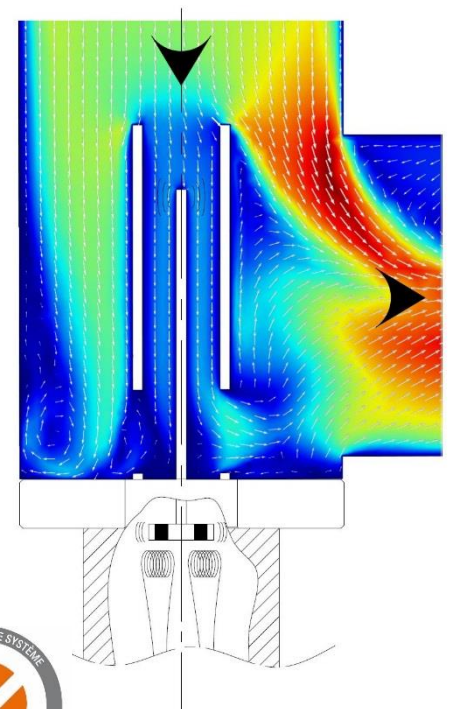
In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency also called tuning-type.

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.

With its exclusive Flow Damper technology that acts like an embedded Flow cell, the measurements stays stable in any conditions.

Sofraser remains unsurpassed regarding process reliability and accuracy.



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