

Since 1972

SOFRASER
Leader in Process Viscometry

9710 Viscosity and Temperature Processors

9711 Multi-sensor Processor (serial output)

9712 Multi-sensor Processor (4 analogical outputs)

9713 Multi-sensor Processor (12 analogical outputs)



**2015
NEW PROCESSORS**

TYPICAL APPLICATION FIELDS

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

Coating: paints, lacquers

Chemistry: polymers, detergents, surfactants

Cosmetics: creams, gels

Oil & Gas: fuels, lubricants

POWERFUL MULTI-SENSOR VISCOSITY & TEMPERATURE PROCESSORS

The Sofraser 9710 electronic processor family receives signals from up to 6 Numeric MIVI sensors while accurately displaying a fluid's viscosity and temperature. When several viscosity measures are needed within a reduced area, the 9710 processor range is the ideal solution.

- **One interface & easy-to-handle electronics:** Thanks to its user-friendly touchscreen display, one 9710 can easily process information up to 6 sensors. For batch control, this is an economic and ideal solution.
- **Improved process management:** With numerous analogical and numerical outputs, the **9712** and **9713 processors** are customized to specific process control needs; alarm values can be set to handle simple control management.
- **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.
- **User-friendly menu:** 24 front panel keys provide intuitive use and facilitate the simple switch from one Numeric MIVI sensor to another.

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



9710 Viscosity & Temperature Processors

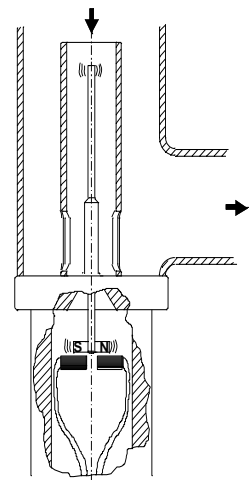
STANDARD FEATURES AND SPECIFICATIONS

Inputs	<ul style="list-style-type: none"> 1 x RS485 input (master) for up to 6 Numeric MIVI (viscosity/temperature) – Maximum cable length: 1200 m Densimeter input (9712)
Outputs	<ul style="list-style-type: none"> 0/4 - 20 mA outputs: independent and isolated for viscosity and temperature: $\pm 0,1\%$; Zmin = 1 kΩ, Zmax.: 500 Ω 9711: no 4 - 20 mA output 9712: 4 x 4 - 20 mA outputs 9713: 12 x 0/4 - 20 mA outputs 1 port RS232 1 port mini-USB 1 slot for SD card
Screen & Display	<ul style="list-style-type: none"> 5.7", LCD illuminated, color touchscreen 24 keys alpha-numeric keypad & virtual keyboard Display of instantaneous values, bars or graphs Relays status display (9712 and 9713 only) Output status display (9712 and 9713 only)
Operating conditions	<ul style="list-style-type: none"> Working temperature: 0 to 45 °C Front panel IP65 / Back panel IP20
Dimensions & characteristics	<ul style="list-style-type: none"> Panel dimensions: 184 mm x 155 mm Total depth: 85 mm Weight: 9711: 800 g – 9712: 1200 g – 9713: 1600 g Din rail for external modules (9713 only) Parameters backup: 7 years on battery
Security	<ul style="list-style-type: none"> Configuration and parameters password-secured
Power supply	<ul style="list-style-type: none"> 24 VDC (20.4 to 28.8 VDC) – 300 mA – 7.2 W
Regulatory	<ul style="list-style-type: none"> CE marked (European conformity)
Options	<ul style="list-style-type: none"> 1 x RS485 output MODBUS / slave code: RTU Possibility of 1x 0-10 V output instead of 1x 0/4 - 20 mA output Insertion in an ATEX Ex-proof box, in hazardous areas Watertight box (IP65)

In 1981, Sofraser invented & patented the world's first vibrating-type viscometer at resonance frequency and remains unsurpassed regarding process reliability and accuracy.

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

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



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