

Since 1972

SOFRASER

Leader in Process Viscometry

9701 Viscosity, Density and Temperature Processor

9701: Adjustable parameters for 1 product



**2015
NEW PROCESSOR**

TYPICAL APPLICATION FIELDS

Petroleum: oil, fuels, lubricants

Chemistry: polymers, detergents, surfactants

Coating: paints, lacquers, inks, varnishes

Cosmetics: creams, gels, pastes

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

RELIABLE AND VERSATILE PROCESSOR FOR PROCESS CONTROL

Sofraser 9701 viscosity, density and temperature processor receives signals from the MIVI sensor to accurately measure and display real-time viscosity, density and temperature and calculate viscosity at reference temperature.

- **User-friendly touchscreen display:** The 9701 viscosity, density and temperature processors offer instantaneous and continuous display in the form of values, bar graphs, trend curves as well as relevant equipment information.
- **Personalized and intuitive use:** Security codes, compensated viscosity tables, offset adjustment, viscosity and density filtering, viscosity, density and temperature Min/Max values and units are easily accessed and programmed on the detailed settings menu.
- **Additional 9701 functions:** Instantaneous kinematic viscosity value measurement available through the measurement of density and dynamic viscosity. Viscosity at reference temperature is easily calculated with the temperature compensated viscosity table.
- **Improve process management and production:** Programmable analog outputs and alarm relays increase viscosity, density and temperature measurement use. Compensated viscosity and density are also possible during process controls.



9701 Viscosity, Density & Temperature Processor

Standard Features and Specifications

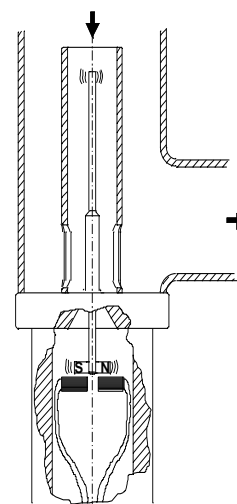
Versions	<ul style="list-style-type: none"> 9701 Viscosity, Density and Temperature Processor For 1 MIVI sensor with 1 parameters set
Inputs	<ul style="list-style-type: none"> Viscosity: MIVI sensor Density: MIVI sensor or external density meter Temperature: Pt100
Resolution	<ul style="list-style-type: none"> Viscosity: between 0.1 % and 0.5 % of measurement from 10 % to 90 % of the full scale range Density: 0.001 g/cc
Outputs	<ul style="list-style-type: none"> 4 x 4–20 mA single-ended outputs for viscosity, temperature, viscosity at reference temperature and density ±0.1 %, Zmin. = 1 kΩ, Zmax.= 500 Ω 1 x RS232 (RJ-11), 1 x RS485 (RJ-11), MODBUS protocol, 2 wires, 1200 m max / 3900 ft max
Relays	<ul style="list-style-type: none"> 9 x NO (Normally Open) relays for low and high alarms and diagnosis Power cut-off 3 A, 8 A max per common, 250 VAC or 30 VDC
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 Alarms, relays and outputs status display
Operating conditions	<ul style="list-style-type: none"> Working temperature: 0 to 45 °C / 30 °F to 110 °F Front panel IP65 / NEMA 4X - Back panel IP20 / NEMA 1
Dimensions & characteristics	<ul style="list-style-type: none"> Panel dimensions: 228 mm x 146 mm / 9" x 5 ¾" Total depth: 121.5 mm / 4.8" Weight: 1.1 kg / 2.4 lb Parameters backup: 7 years on battery
Security	<ul style="list-style-type: none"> Configuration and parameters password-secured
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)
Options & accessories	<ul style="list-style-type: none"> Insertion in an ATEX Ex-proof box, for use in hazardous areas Insertion in a watertight box (IP65) (basic or with pre-wiring and terminal block) Power supply: din-rail type 88 to 264 VAC – 24 VDC or universal plug type 100 to 240 VAC – 24 VDC
Service options	<ul style="list-style-type: none"> Extension of density range (min. 0.6 g/cc, max. 1.6 g/cc) Calibration and calibration report at 1, 2 or 4 viscosity point(s) up to 1000 cP and 100 °C Calibration and calibration report at 1 density point between 0.6 to 1.2 g/cc up to 100 °C Programming of temperature compensation table or settings according to end-user "viscosity versus temperature"

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

The amplitude and frequency of the vibration vary according to the viscosity and density 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 in 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