7000 Viscosity Transmitter



Typical application fields

Since 1972

S⁽¹⁾FRAS

ader in Process Viscometry

- Food & beverage: cheese, yeast, sauces
- Printing: inks, varnishes
- Packaging: cardboards, glues, inks
- Coating: paints, lacquers

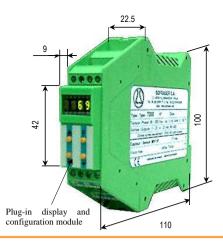
 Pharmaceutics and cosmetics: detergents, hygiene and care products

Whatever your industry, Sofraser understandss and develop solutions for many applications. For a personalized approach, contact: instruments@sofraser.com

INSTANT AND PERMANENT VISCOSITY AND TEMPERATURE MEASUREMENT

The Sofraser **7000V** electronic cabinet processes the amplitude variations from the MIVI **viscometer** in order to deliver a linear viscosity response (20 segment table). It includes a digital display, analog and digital outputs, and displays the process temperature.

- With easy-to-handle electronics, standardized outputs and adjusted calibration, the Sofraser 7000 transmitter is the reference for standard process applications
- Easy connection to any data acquisition system or process controller for precise reporting and control.
- Easy mounting on a standard DIN rail



Standard features and specifications

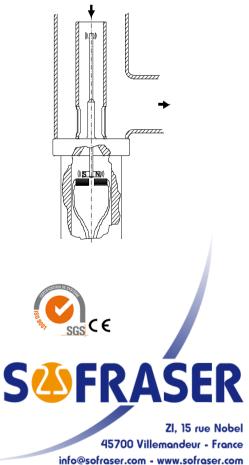
Inputs	ViscosityTemperature (Pt100 probe)
Outputs	 Independent and insulated outputs for viscosity and temperature: One or two 4 - 20 mA ± 0,1 %; Z max.: 750 Ω; drift: 50 ppm/°C One RS 485, up to 32 sets to be connected; configuration required: maximum cable length 1000 m / 3280 ft, 1 twisted pair cable 1200 to 38400 baud, protocol MODBUS, slave code: RTU
Resolution	• 0,1 % of full scale range
Operating conditions	 Working temperature: 0 to 50° C / 32° F to 122° F Process temperature: -20° C to 100° C / -4° F to 212° F Thermal drift sensor correction up to 100° C / 210° F Watertightness: IP20 To be installed in a safe area with stable temperature
Dimensions	 Dimensions: 100 mm x 22.5 mm / 3 9/10" x 22/25" Total depth: 110 mm / 4 1/3 " Weight: 180g / 0,4 lb
Power input	• 85 to 265 VAC / DC
Certification	CE marked (European conformity)
Options	 One or two programming and display module(s): 4 digits displays for original settings modification (calibration, outputs, shifts, dynamic filtering) Insertion in an ATEX ex-proof box, for use in hazardous areas Insertion in a watertight box (IP65)
Service options	 Calibration certificate with standard Newtonian products Temperature correction: linearization of viscosity signal by mathematical model Calibration table or curve plot from at least 6 certified viscosity standard oils, up to 1,000,000 cP Calibration and calibration report at 1, 2, or 4 viscosity point(s) up to 300,000 cP Programmed temperature compensation table or settings according to end-user provided "viscosity versus temperature" values

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In 1981, Sofraser invented and patented the world's first vibrating 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 a constant electrical power.

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



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