



Typical application fields

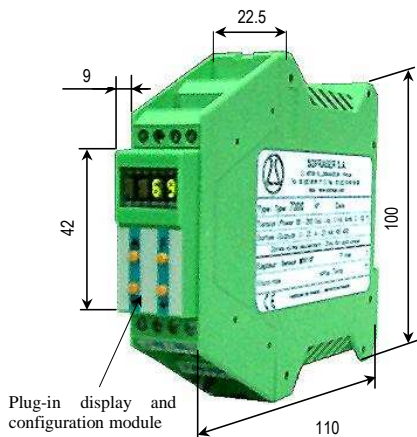
- **Food & beverage:** cheese, yeast, sauces
- **Printing:** inks, varnishes
- **Packaging:** cardboards, glues, inks
- **Coating:** paints, lacquers
- **Pharmaceuticals and cosmetics:** detergents, hygiene and care products

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

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



7000 Viscosity Transmitter

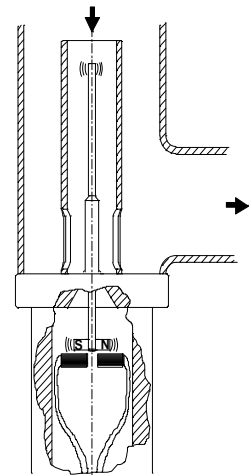
Standard features and specifications

Inputs	<ul style="list-style-type: none"> • Viscosity • Temperature (Pt100 probe)
Outputs	<p>Independent and insulated outputs for viscosity and temperature:</p> <ul style="list-style-type: none"> • One or two 4 - 20 mA \pm 0,1 %; Z max.: 750 Ω; drift: 50 ppm/$^{\circ}$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	<ul style="list-style-type: none"> • 0,1 % of full scale range
Operating conditions	<ul style="list-style-type: none"> • Working temperature: 0 to 50$^{\circ}$ C / 32$^{\circ}$ F to 122$^{\circ}$ F • Process temperature: -20$^{\circ}$ C to 100$^{\circ}$ C / -4$^{\circ}$ F to 212$^{\circ}$ F • Thermal drift sensor correction up to 100$^{\circ}$ C / 210$^{\circ}$ F • Watertightness: IP20 • To be installed in a safe area with stable temperature
Dimensions	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 85 to 265 VAC / DC
Certification	<ul style="list-style-type: none"> • CE marked (European conformity)
Options	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

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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