

Viscosity processor 9601

Instantaneous and continuous viscosity and temperature measurement

The solution for real time control of your process.

Graphic screen with 24 keys keyboard
and user friendly menus for intuitive utilization.

Display modes suited to all needs.



GENERAL TECHNICAL FEATURES

Screen	STN LCD, 128 x 64 pixels
Utilisation	keyboard, 24 keys
Display	Instantaneous values, bargraph, curves Alarms, relays and outputs status
Inputs	viscosity (MIVI sensor), temperature (Pt100), density (4-20mA – optional densimeter)
Analog outputs	Four 4-20mA outputs, viscosity, temperature, viscosity at reference temperature, density Independant and isolated, +/- 0.1%, Zmin voltage = 1kΩ, Zmax current = 500Ω, resolution 12 bits 0-10V outputs (optional)
Relays	14 (in two sets), low and high alarms, NO/NC, failure NO Power cut-off 3A, 8A max per commun, 250VAC or 30VDC
Interface	Two RS232 (RJ-11), Modbus, Canbus protocol One RS485 (RJ-11), 2 wires, 1200m max. (optional)
Power supply	24VDC (20.4 to 28.8VDC) – 300mA – 7.2W
Housing	Panel housing – Front panel dimensions :184 mm (width) x 155 mm (height) Total depth : 113,2 mm Material : ABS Protection degree : IP65 front panel, IP20 Weight : 0,515 kg Cut-out dimensions : 141mm (width) x 126 mm (height) – Mounting panel thickness : 5 mm max.
Security	Configuration and parameters secured by customized password Battery parameters backup (7 years)
Optional software	WISC 90 : configuration, setting and data logging

Principle

Sofraser is the inventor of the vibrating-type viscometer at resonance frequency, patented in 1981, that is nowadays world widely considered as the most reliable in process.

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

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

9601 electronic cabinet allows vibration of MIVI viscometer and processes amplitude variations in order to deliver a linear viscosity response.

Others specifications

- Viscosity at reference temperature calculation with 6 segments linearization table (optional data programming).
- Selection of display units (mPa.s, cP, P, Pa.s - °C, °F).
- cSt display of kinematic viscosity with constant or densimeter (optional).
- Creation of user units possibility.
- 5 products correlations with quadratic equations.
- Maximum process temperatures : sensor limits (see MIVI technical leaflet)