





COMPLETE FIELD VERSION





SELECTED APPLICATIONS

Refining: crude oil, light to heavy fuels, bitumen

Lubricants, hydraulic fluids

Polymerization: lacquers, varnishes

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

AUTOMATIC ANALYZER, ON-LINE VISCOSITY MEASUREMENT AT REFERENCE TEMPERATURE

Utilizing the acclaimed advancements of our MIVI viscosity sensor and **9731** innovative electronics, **Sofraser's Thermoset-CF** brings the most efficient technology to viscosity measurement at reference temperature.

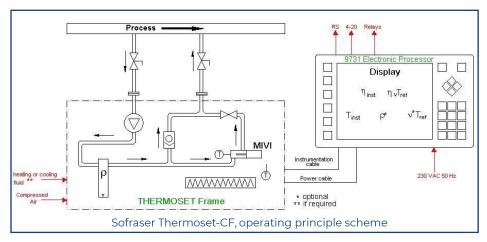
The **Thermoset-CF with integrated sampling system** draws the fluid from the process, takes it to the required temperature, measures the viscosity and re-injects the fluid to the main line. Viscosity measures are correlated to ASTM D445.

- Guarantee product quality: Thanks to the reliable and repeatable measures obtained in continuous by-pass operation from the main line, the Thermoset-CF maintains strict manufacturing specifications.
- Deliver optimal production efficiency: With one simple installation in permanent process operation, the Thermoset-CF has a small footprint, no annex installation, and outside installation is possible.
- Increase profitability: An integrated measuring chamber with no bath or oven guarantees insignificant cleaning or maintenance down-time. This asset provides tangible savings in both time and cost, while maximizing return on investment.
- Technological versatility: The Thermoset-CF processes myriad parameters. It is highly tolerant to input sample temperature and to particles' size. For extreme input temperatures, a conditioning module can heat or cool fluids before reaching reference temperature. ATEX built, it can be configured to calculate the viscosity index according to ASTM 2270-04, or to provide kinematic viscosity with density measurement.



THERMOSET-CF PROCESS ANALYZER

FEATURES AND SPECIFICATIONS	
Measuring range	 Selectable up to 10 000 cP at reference temperature (higher on request)
Precision	• +/- 1% of reading (between 50% and 100% of full scale range)
Response time	 2 to 10 min (according to input sample and reference temperatures)
Outputs	 Color and touch screen, display for viscosity, temperature, density (option) 4-20 mA (viscosity, temperature, density) RS 485 – RS 232 Viscosity and temperature alarms and relays
Operating conditions	 Maximum inlet temperature: 190 °C Reference temperature: according to the requirements from 40 to 150 °C Maximum working pressure: 16 bar (higher on request) Flow rate: 60 l/h – Internal volume: 0.15 l
Protection	Frame:
Process connections	• Standard flanges DN 10 PN 16 (other on request)
Required inputs	 110 or 230 VAC, single phase, 50-60 Hz, <100 W Compressed air: 7 bar, 0.5 m3/h – 100 psi, 0.3 SCFM Heating or cooling fluid (when required) Product flow rate: 60 I/h – 0.25 gpm suggested
Size and weight (standard)	<u>Frame</u> : H: 780 mm - W: 920 mm - D: 420 mm - 110 kg approx. <u>Processor</u> : H: 450 mm - W: 405 mm - D 263 mm - 11 kg approx.
Options and Accessories	 Density measurement / Kinematic viscosity measurement in cSt Cleaning / Filtering module down to 100 microns Conditioning module (sample cooler or heater) Insertion of processor in ex-proof box Specific request



In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency also called tuning-type.

The vibration amplitude varies according to the viscosity 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 regarding process reliability and accuracy.



Representantes / Distribuidores Exclusivos

Argentina

Tel: (+54 11) 5352 2500 Email: info@dastecsrl.com.ar Web: www.dastecsrl.com.ar

Uruguay www.dastecsrl.com.uy

Paraguay www.dastecsrl.com.py







