

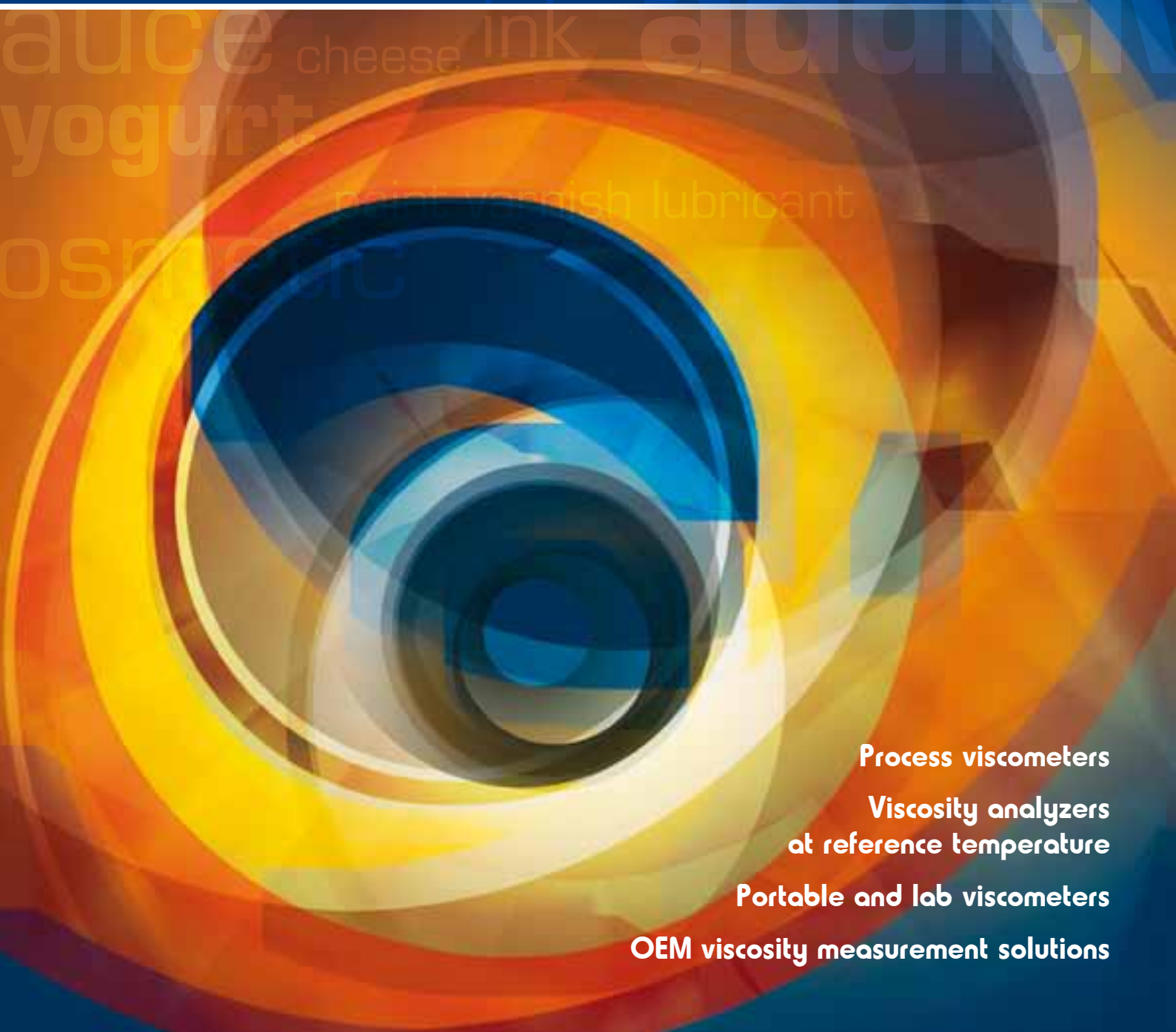


Since 1972

SOFRASER

Leader in Process Viscometry

Expertise and innovation
in viscosity measurement and control



- Process viscometers
- Viscosity analyzers at reference temperature
- Portable and lab viscometers
- OEM viscosity measurement solutions



Sofraser MIVI sensor

Process viscometer with high performance and flexibility



The Sofraser MIVI sensor is the ideal process instrument for inline or on reactor, instant, and permanent viscosity measurement.

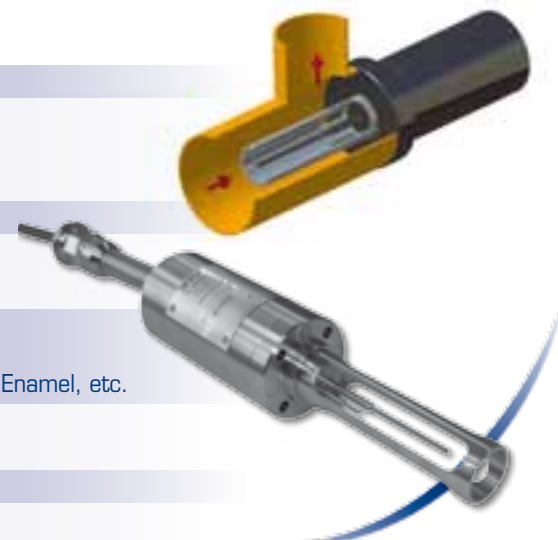
This established device has excellent capabilities in any fluid, diverse applications, and in various positions.

Via simple mounting plus paired and matched electronics, the Sofraser MIVI sensor suits all of your requirements.

- **High repeatability**
- **Configuration for high temperature and high pressure working conditions**
- **Approved design for explosive areas and sanitary processes**
- **Simple installation, no maintenance and non-wearing parts**
- **Varied mounting configurations and positions allow optimal fluid measure**

Specifications

Viscosity	
Measuring range	From 0.1-10 mPa.s to 1000-1 000 000 mPa.s High sensitivity 0.01-10 mPa.s
Repeatability	±0.1% of full scale range
Conditions	
Operating temperature	From -30°C to 300°C
Working pressure	60 bar, option up to 500 bar, more on request
Material	
	316L stainless steel Special alloy: Hastelloy, 316Ti, Duplex, etc. Protective coatings: Diamond-Like (ADLC), PTFE, Enamel, etc.
Safety & Hygiene	
	Hazardous areas ATEX, FM, JIS, KGS approved Sanitary design according to 3A
Degree of protection	
Temperature probe	IP 67
	Internal or external



Sofraser electronic range

Viscosity and temperature processors



Sofraser has the world's largest transmitter and processor range, covering from simple data acquisition needs to complex viscosity and temperature requests. Equipped with numerous outputs possibilities, the processors can offer multi-sensor capabilities.

- **Easy to use electronics and simple mounting**
- **Constant display of the viscosity and temperature, real time control**
- **Effortless connection to any data acquisition system or process controller, up to 12 current outputs**
- **Multi-sensor option and programmable parameters up to 8 products**





Sofraser **Thermoset MIVI**

Powerful online viscosity analyzer at reference temperature

The Sofraser Thermoset MIVI combines the established MIVI sensor with technological viscosity measurement at reference temperature.

By drawing fluid from the process and taking it to user reference temperature, it allows a perfect viscosity measurement in correlation with ASTM D-445. Its design provides a permanent measure without a bath or oven, and absolutely no clogging.

- **Reliable and repeatable measure**
- **Permanent process operation in one installation**
- **Integrated measuring chamber: very few maintenance and easy installation**
- **ATEX design, optional density measurement, viscosity index calculation**

Specifications

Viscosity

Measuring range at reference temperature	1-100 cP, 10-1000 cP, 100-10 000 cP cSt on request with incorporated densimeter
Repeatability	±1% of full scale range

Conditions

Product inlet temperature	190°C max. - Higher on request
Reference temperature	From 40°C to 150°C, according to the requirements
Working pressure	16 bar - Higher on request
Safety	Hazardous areas ATEX



Sofraser **PIVI range** **Portable and lab viscometers**



The Sofraser PIVI range answers the most accurate viscosity requirements in a compact and easy to use system for applications ranging from quality control to goods delivery control.

The Sofraser PIVI viscometers integrate a digital display and internal memory of 16 measures in order to optimize the polyvalence of your process controls.

- **Accurate and reliable in every context**
- **Small sample volume**
- **Easy to clean and use from one application to another**
- **No wearing parts, low maintenance**
- **Compact, simple and robust**

Specifications

Viscosity

Measuring range	From 0.1-100 mPa.s to 10-10 000 mPa.s
Repeatability	±0.5% of full scale range

Conditions

Sample temperature	Up to 200°C
Material	316L stainless steel
Degree of protection	IP 67
Weight	From 0.9 kg



polymer cream bitumen sauce cheese ink yogurt paint varnish lubri

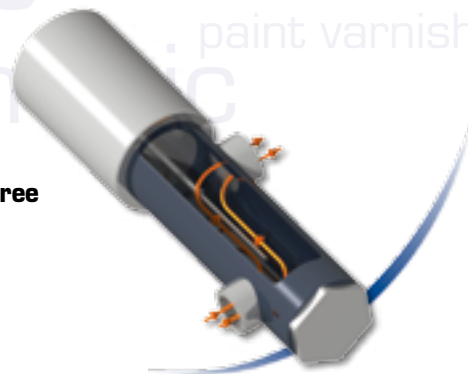
OEM viscosity measurement solutions

Designed for process machinery

For quantity markets, Sofraser designs process viscometer features and creates specific developments to match requirements.

Through the machinery and optimization of fluid quality, our goal is to increase both manufacturers' and customers' profitability.

- **Unprecedented versatility**
- **Robust, reliable, and maintenance-free**
- **Easy-to-handle and install**



Expertise and innovation in viscosity measurement and control

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

SOFRASER

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