Wide range rotary viscosimeters “STS-2025”

MODEL WITH TEMPERATURE READOUT AND SHEAR RATE MEASUREMENT AND SHEAR STRESS.

NEW

USB

FEATURES

10 different options of language.
L.C.D. display of parameters and results.
Parameters display:
- Selected speed .....r.p.m.
- Selected spindle
- Viscosity result ..... cP (mPa-s) or cSt.
- Base scale percentage .....%.
- Sample temperature: .....°C or ° F.
- Deformation ratio (with special spindle)
- Torsion force (with special spindles)
- Density

(input by the user) .....g/cm^3.
This instrument determines both relative and absolute viscosity.
Data can be changed between S.I. and C.G.S.
Automatically checks for correct operation point by scanning at different speeds. (Autotest)
Auto alarm in the case of any fault being detected.
Off scale detection and indication by an audible and visual signal.
Step controlled speed to prevent spindle vibrations.
User-calibrable
54 preselected speeds from 0.01 a 200 r.p.m.
The operator can select any speed within this range.

USB port.
Mains power surge protection.
9 memoirs of working programs.
Datalogger: Possibility of transferring the saveddata saved to a pendrive in excel format.

TECHNICAL DATA

Temperature range:- from -40 °C to + 300 °C (+ 40 °F to + 572 °F).
- Resolution °C: 0.1 °C (0.1722 °F).
- Precision °C: ± 0.2 °C.
- Probe type: Pt 100.

Direct results in cP(mPa-s) or cSt.: models STS-2025 L & R.
Direct results in Poise (Pa-s) or St.: model STS-2025 H.
Precision: ±1% base scale.
Repeatability: 0.2%.
The basic equipment includes:
- Main unit.
- Base-foot support.
- Spindle protector.
- Spindle support.
- Set of spindles according to model (see table).
- Power supply + mains cable.
- PT100 temperature probe.
- USB pen drive to download data.
- Calibration certificate.



MODELS	Part No.	Measuring range	Standard spindles	Power requirement	Power W	Weight Kg
STS-2025 L	1001611	*1 to 6.000.000 cP	L1, L2, L3, L4	100-240 V 50/60 Hz	25	5
STS-2025 R	1001612	25 to 40.000.000 cP	R2, R3, R4, R5, R6, R7	100-240 V 50/60 Hz	25	5
STS-2025 H	1001613	200 to 320.000.000 cP	R2, R3, R4, R5, R6, R7	100-240 V 50/60 Hz	25	5

*“Low viscosity: The minimum viscosity when using a range of ‘1’ with standard spindles is 10 cP”. “For measurements < 1cP, it is recommended to use in conjunction with the low viscosity adapter (LCP or LCP/B).”

ACCESSORIES

Standard **spindles** for L model.
L1 Part No. 1001036
L2 Part No. 1001037
L3 Part No. 1001038
L4 Part No. 1001039

Standard **spindles** for R and H model.
R1 Part No. 1000990 (for low viscosity samples)
R2 Part No. 1001070
R3 Part No. 1001071
R4 Part No. 1001072
R5 Part No. 1001073
R6 Part No. 1001074
R7 Part No. 1001075

Small sample volume adapters (APM).
Suitable for sample volumes from 6,7 to 13,5 ml.
Requires the “TL” or “TR” set of spindles.
Unit suitable for temperatures from 0 °C to +100 °C.
Part No. 1000987 Small sample adapter APM with water jacket and temperature sensor incorporated.

Special Spindles
Part No. 1001224 set of spindles TL5 – TL6- TL7 for models L.
Part No. 1001225 set of spindles TR8 - TR9 - TR10 - TR11 for models R and H.

Low viscosity adapters. (LCP).
Required if low viscosity measurements are necessary.
Reproducible results and measurements of viscosity from 1 cP.
Suitable for models L and R.
Sample volume: 16 ml.
Includes special spindle LCP.
Part No. 1000985. Adapter LCP with water jacket.
Part No. 1001624 Temperature sensor suitable for LCP.

Displacement spiral helix adapter.
Required for low fluidity samples.
Part No. 1000988



Spindle R1



AMP



AMP probe



LCP