



Wide range rotary viscosimeters "STS-2011"

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

FEATURES

- 10 different options of language.
- L.C.D. display of parameters and results.
- Parameters display:
 - Selected speedr.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/cm³.
- 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.
- 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.
- Calibration by the user himself.
- 18 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.
- 10 memoirs of working programs.

TECHNICAL DATA

- Temperature range:- from -40 °C to + 300.0 °C (- 40.0 °F to + 572.0 °F).
- Resolution °C: 0.1 °C (0.1722 °F).
- Precision °C: ± 0.1 °C.
- Probe type: Pt 100.
- Direct results in cP(mPa-s) or cSt.: models STS-2011 L & R.
- Direct results in Poise (Pa-s) or St.: model STS-2011 H.
- Precision: ±1% base scale.
- Supplied complete with:
 - Anti shock carry case.
 - Main unit.
 - Support base.
 - Spindle protector.
 - Spindle support.
 - Set of spindles (model dependant) (see table).



MODELS	Part No.	Measuring range	Standard spindles	Power requirement	Power W	Weight Kg
STS-2011 L	1001611	20 to 2.000.000 cP	L1, L2, L3, L4	100-240 V 50/60 Hz	25	5
STS-2011 R	1001612	100 to 13.000.000 cP	R2, R3, R4, R5, R6, R7	100-240 V 50/60 Hz	25	5
STS-2011 H	1001613	200 to 106.000.000 cP	R2, R3, R4, R5, R6, R7	100-240 V 50/60 Hz	25	5

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 to 18 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



Part No. **1000985**



Part No. **1000986**



Part No. **1000988**