Model R550 Viscometers

The Model R550 is a high accuracy viscometer with a rheometer focus. In addition to steady flow viscosity measurement, the viscometer provides "spring relaxation measurement" for very low shear rate viscosity measurements. Actual work condition phenomena such as leveling, dripping, and sagging are found to correspond closely with substance property values as determined by spring relaxation measurement analysis.

Feature

- 'Spring relaxation measurement' enables evaluation of flow properties in the very low shear rate ranges
- Programmable measurement function enables wide range, maximum 55-step, automatic rotation speed change
- Pivot jewel bearing protection mechanism prevents damage to bearing and facilitates rotor attachment and removal
- Zero tracking function enables measurement without hysteresis
- Rotation slow-up, slow-down function allows measurement without subjecting sample to sudden shocks
- Viscosity data processing software (option) enables flow analysis and determination of flow property values
- Integrated temperature converter with input from resistance thermometer (sold separately) provides simultaneous display and output of viscosity and temperature

Options

■ Viscosity data processing software
Special analytical software provides spring relaxation analysis, flow/time dependent analysis, and temperature dependent analysis

■ Cone option
48' X R24, 3° X R17.65, etc., cone options are available for mounting on RE550

■ Temperature baths
Viscosity and temperature are closely related and specialized temperature baths are recommended for precise viscosity measurement

■ Solvent trap
Effective for viscosity measurement of samples which include high volatility solvents

■ Printer
Recommended for preserving records of measured data

Specifications

Measurement range	0.6~512,000 mPa·s $<$ RE550 (L,H,R,U), 4 types $>$
Accuracy	within ±2% of full scale
Repeatability	within ±0.2% of full scale
Power	AC100±10% 50/60Hz,
Power consumption	50VA
Weight	RE550 models, approx. 11 kg (including stand, controller)