

TV-100/200 VISCOMETER



The TV-100/200 viscometer is a multi-range viscometer that uses a torque balance servo system. Achieves reliable viscosity measurement with excellent linearity and reproducibility over a wide measurement range. By combining the program measurement function^{*1} and the auto range function, viscosity measurement can be performed efficiently without worrying about the measurement range.

FEATURES

- Multi-range
- Program function^{*1}
- Auto range function
- Touch panel installed
- Data compatibility

Viscosity Measurement Range

Types	Measurement Range	Full-Scale Torque($\mu\text{N}\cdot\text{m}$)	Viscosity Measurement Range($\text{mPa}\cdot\text{s}$)
TV-100BL TV-200BL	M	67.37	15 – 6,000,000 (1 – 600,000) ^{*2}
	2.5M	168.4	25 – 15,000,000
	5M	336.9	50 – 30,000,000
	AL (AUTO)	M to 5M (Auto)	15 – 30,000,000
TV-100BH TV-200BH	H	718.7	100 – 40,000,000 ^{*3}
	R	1437.4	100 – 80,000,000 ^{*3}
	U	5749.6	400 – 320,000,000 ^{*3}
	AH (AUTO)	H to U (Auto)	100 – 320,000,000 ^{*3}
TV-100EL TV-200EL	M	67.37	0.608 – 6,076 ^{*4}
	2.5M	168.4	1.52 – 15,190 ^{*4}
	5M	336.9	3.04 – 30,380 ^{*4}
	AL (AUTO)	M to 5M (Auto)	0.608 – 30,380 ^{*4}
TV-100EH TV-200EH	H	718.7	6.48 – 64,820 ^{*4}
	R	1437.4	13.0 – 129,600 ^{*4}
	U	5749.6	51.9 – 518,500 ^{*4}
	AH (AUTO)	H to U (Auto)	6.48 – 518,500 ^{*4}

*1) TV-200 function.

*2) Measurement range when using the TML adapter (option).

*3) Measurement range when using TH1 rotor (option).

*4) Measurement range when using a standard cone rotor.

Specifications

	TV-100	TV-200
Rotational Speed	0, 0.1 - 100.0 rpm	
Steps	1,001 Steps per 0.1rpm	
Measurement Mode	Manual Auto-Stop Time Auto-Stop Viscosity	Manual Auto-Stop Time Auto-Stop Viscosity Program (40 steps at maximum)
Measurement Memory	10 Patterns in each mode	
Measurement Range	Refer to the following measurement range table	
Viscosity Display	% / mPa·s / Pa·s / kPa·s (cP/P switching possible)	
Accuracy	less than ± 1.0 % of Full Scale *5	
Repeatability	less than ± 0.2 % of Full Scale	
Data output format	fixed, comma separated	
Input / output signal	USB A (for serial printer), USB B (for PC) for Temperature sensor (option) for External connection terminal (measurement start/stop signal)	
Sample temperature range	+10°C to +60°C	
Temperature resolution	0.1°C *6	
Temperature accuracy	± 0.2 °C *6	
Operating ambient temperature	0°C to 40°C	
Operating ambient humidity	90%RH or less (non-condensing)	
Power supply	100-240VAC 50/60Hz	
Power consumption	Less than 15VA	
Wetted Material	Stainless Steel	
Dimension (mm)	300(W) x 334(D) x 436(H) mm Stand only: 300(W) x 310(D) x 436(H) mm	
Weight	B type viscometer: Approx. 5.7kg (including stand) E type viscometer: Approx. 6.5kg (including stand) Stand: Approx. 2.4kg	

*5): When using TM1, TH2 rotor, and 1 ° 34' cone rotor.

*6): When using a temperature sensor (option).



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