

SF-1U/2U Film Flow Meter

High Precision Film Flow Meter

- Accurate to $\pm 0.5\%$ of Reading Scale at Lower Range and $\pm 1\%$ at Upper Range
- Easy, Accurate Flow Rate Measurement
- Computer Automation Available Through RS-232C Connection



Description

The SF-1U/2U combines precision volumetric tubing with a soap film detector (patented) that allows it to measure the flow of any type of gas accurately. It measures the amount of time required for the movement of a soap film through a portion of the volumetric tubing (of a standard volume), and determines the gas flow rate using that time value along with measured values for atmospheric pressure and temperature during the relevant time period. There are four different volumetric tubing units (VP series), suitable for different gas flow levels. The SF-2U features an internal atmospheric pressure sensor.



Technical Specifications

Model	SF-1U/2U				
Volumetric tubing model	VP-1U	VP-2U	VP-3U	VP-4U	
Flow rate measurement range	0.2 to 10 mL/min	2 to 100 mL/min	20 to 1000 mL/min	0.2 to 10 L/min	
Flow rate measurement time	120 to 2.4 seconds	60 to 1.2 seconds	60 to 1.2 seconds	60 to 1.2 seconds	
Precision	± 0.5%	0.2 to 2 mL/min	2 to 20 mL/min	20 to 200 mL/min	0.2 to 1 L/min
	± 1.0%	2 to 10 mL/min	20 to 100 mL/min	200 to 1000 mL/min	1 to 10 L/min
Compatible gases	N ₂ air, O ₂ , H ₂ , Ar, CH ₄ , C ₃ H ₈ , etc. (note: Water soluble gases cannot be measured)				
Display	LCD six-digit display (switches between measured flow rate, measured time, temperature, and atmospheric pressure setting)				
Operating temperature* ¹	930 to 1040 hPa; Measurement precision ± 2.7 hPa (measured data can be used for corrections; if used for corrections, the total precision becomes 0.7 to 1.2%)				
Automatic measurement functions	Average value calculated after between two and five automatic measurements, in auto-mode (previously recorded data can be recalled; recorded data is deleted when unit power is turned off)				
Power source	AC adapter (DC 6V); Drive (AC adapter sold separately; select Japanese or overseas specifications)				
Speed range	5 to 40°C (accuracy guaranteed between 15 and 35°C)				
External input/output	Conforms to RS-232C				
Weight		Main unit, as a set: 2.0 kg		3.1 kg	

*1 Compatible with the SF-2U.

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SF-1U/2U

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