

11 Pitot tube temperature-pressure-flow monitor

【PRODUCT DESCRIPTION】

SVPT-100 Temperature-Pressure-Velocity Monitor consists of control box, electric module and pitot tube. It integrally measures flue gas temperature, pressure and flow velocity. Designed for high-temperature, humid, dusty and corrosive conditions, it complies with national standards. Widely used for exhaust monitoring and process control in cement, metallurgy, coal chemical, waste incineration, power and petrochemical industries.



【PRODUCT FEATURES】

- Integrated compact design, easy to install.
- Real-time temp, pressure and flow measurement via 4-20mA and RS485.
- Auto backflush protects pitot tube from dust.
- Optimized S-type pitot tube avoids water buildup, ideal for low flow.
- Patented design for easy maintenance.

【TECHNICAL PARAMETERS】

Item	Specification
Measurement Principle	S-type Pitot tube differential pressure principle
Measurement Range	Flow velocity: 0 – 30 m/s
	Differential pressure: 0 – 500 Pa
	Temperature: 0 – 300 °C
	Pressure: -5 – +5 kPa
	All above ranges are customizable
Accuracy	Flow velocity accuracy:
	When velocity > 10 m/s: relative error ≤ ±10%
	When velocity ≤ 10 m/s: relative error ≤ ±12%
	Temperature accuracy:
	Temperature linear error ≤ ±3°C
Response Time	≤ 30 s (T90)
Communication Interfaces	1 RS485 digital I/O, 4 analog outputs (4-20 mA)
Power Supply	AC 220 ± 22 V, 50 Hz, 30 W
Operating Environment	Temperature: Main unit: -20 °C – 50 °C; Probe: < 180 °C
	Humidity: Main unit: < 90% RH
Overall Dimensions	Main unit: 381.5 mm × 245 mm × 265.5 mm
	Pitot tube: 0.6 m, 1.0 m, 1.2 m, 1.5 m (standard lengths; other sizes customizable)
Instrument Weight	< 10 kg