

PGA-91

Pitot-tube
Flowmeter



www.thomsongroup.com.au

In-situ

Technical Specification

Measured Component	Flow Rate (Vs), Pressure Dynamic (Pd), Pressure Static (Ps), Pressure Ambient (Pa), Temperature (Ts)
Measurement Principle	Pitot-tube (Flow), K-type TC (Temp.)
Measuring Range	Vs : Min 0 ~ 5 m/s , Max 0 ~ 50 m/s Pd : 2.5 ~ 254 mmHzO Pa : 500 ~ 1100 hPa Ts : 0 ~ 1200 °C
Repeatability	< ±0.5 % FS
Linearity	< ±1 % FS
Response Time	< 5 seconds



System Component Analyzer Main Unit / S-type Pitot Tube / Cables / Master Flange

Option Main Unit Cabinet / Teflon Coated Probe

Certificate & Approval Type Approval (Korea)
US EPA (USA)
CCEP (China)

- Feature**
- 01 Measures flow velocity through the vertical surface of the pitot tube using S-Type pitot tubes (dynamic pressure)
 - 02 Installs on one side of the stack for easy installation and maintenance

Product Variation

- PGA-91 : 10 m/s, 20 m/s, 25 m/s, 30 m/s, 50 m/s
- PGA-92 : 15 m/s
- PGA-93 : 8 m/s
- PGA-94 : 5 m/s

Other Specification

Measurement Condition	Operating Temp.	-18 ~ +55 °C
	Gas Temp.	< +700 °C
Communication	Analog Output	1 Channel, 4 ~ 20 mA
	Analog Input	1 Channel (Internal), 4 ~ 20 mA
	Digital Output	4 Channel
	Digital Input	1 Channel
	Display & Input Device	7 inch LCD Monitor (Touch Screen) / USB
Interface	RS232, 422, 485 / LAN (Ethernet) / Hart	

Analyzer Unit	Material	SUS 304
	Dimension	W 350 x D 243 x H 480 mm
	Weight	25 kg
	Voltage	110 / 220 VAC, 50 / 60 Hz
	Power Consumption	200 W

Pitot-tube	Material	SUS 316 L or SUS 316 Ti
	Length	0.5 m ~ 2.5 m
	Weight	1.0 m : 10 kg / 2.0 m : 15 kg
	Max. Gas Temp.	< +700 °C
	Gas Flow Rate	> 0.01 m/s
	Purge	Necessary (Instrument Air)
	Temp. Sensor	K-type Thermocouple

Instrument Air Consumption	Analyzer	0.2 m³/h
----------------------------	----------	----------