

	Compressed air can be dangerous! Please familiarize yourself with the forces under pressurized conditions. Respect the local guidelines and regulations for working with pressurized equipment.
	! WARNING Mounting of this unit should be in De-Pressurized lines only !
	Pressurize the system gently, 250 mbar per second. If the safety lines seem to hold all counter pressure on the probe, tighten them further.

Order numbers:

High pressure option for VPFlowScope In-line

VPA.0001.093



Please always check the label of your product for the specifications.

Specifications are subject to change as we are continuously improving our products. Please contact us to obtain the latest specification sheet.

Flow sensor

(minimum detection level and max flow rate shown)

- VPS.R080.M050	0.23...80 m ³ _n /hr	0.13...50 SCFM
- VPS.R250.M100	0.91...250 m ³ _n /hr	0.54...150 SCFM
- VPS.R01K.M200	3.55...1000 m ³ _n /hr	2.15...600 SCFM

Accuracy	0.5% FSS under calibration conditions with tubing kit 5% FSS without tubing kit	
Reference conditions	0 °C, 1013.25 mbar - DIN1343	32 °F, 14.65 psi
Gas temperature	0...60 °C	32..140 °F
Gases	Compressed air, nitrogen, inert gases, 95% non condensing gases	

Pressure sensor

Range	0...35 bar gauge	0...500 psi gauge
Accuracy	+/- 1.5% FSS (0...60 °C)	+/- 1.5% FSS (32...140 °F)

Temperature sensor

Range	0...60 °C	32...140 °F
Accuracy	+/- 1 °C 1.8 °F (from 10 m _n /sec and up) (At zero flow conditions, temperature reading increases due to self-heating by the flow sensor)	

Display

Technology	Liquid crystal
Back light	Blue with auto power save
Memory	2 Million point memory option

Mechanical

VPS.R080.M050	135mm x 50mm x 85mm 0.7 Kg	5.31" x 1.97" x 3.35"	1.54 lbs
VPS.R250.M100	135mm x 50mm x 85mm 0.7 Kg	5.31" x 1.97" x 3.35"	1.54 lbs
VPS.R01K.M200	155mm x 90mm x 125mm 1.6 Kg	6.10" x 3.54" x 4.92"	3.58 lbs
IP grade	IP65 when mated to connector, at room temperature; direct rain and sunlight should be avoided. Extreme temperature fluctuations may affect the IP grade over time.		
Ambient temperature	0...60 °C	32...140 °F	
Wetted materials	Body: Anodized aluminum Sensor: Silicon, epoxy, glass Sealing: FTM 60, Polyurethane		

Inputs and outputs

Analog	4..20mA or pulse, selectable via installation software
Serial IO	Modbus RTU USB for configuration (display version only)
Supply	12..24 VDC +-10% CLASS 2 (UL)
Power consumption	150mA at 24VDC

Certifications

CE	EN 61326-1(2006) Class A, EN 61000-6-1 (2007)
UL / CUL	14 AZ, Industrial Control Equipment