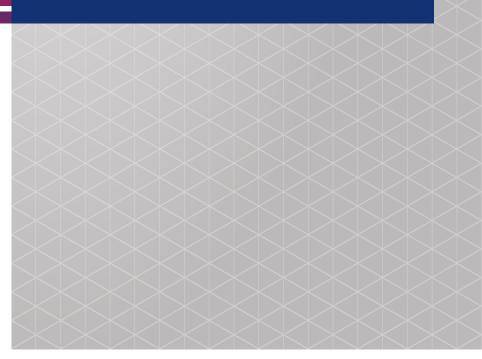


VPFlowScope[®] in-line

- > Mass Flow, Pressure & Temperature
- > Bi-directional measurements (optional)
- > 2 million point data logger (optional)



VPFlowScope[®] In-line

With the three in one VPFlowScope® in-line, VPInstruments sets the new standard for compressed air measurement. Flow, Pressure and Temperature measured at the same time, at the same point with a single instrument makes measuring child's play. All key performance indicators of your compressed air system are finally measured together, the way they should be. It's time to reveal and unleash the real savings potential of your factory.

The VPFlowScope® in-line is your best choice to move forward with creating better efficiency levels in your compressed air and technical gas systems. Now you have an instrument that provides you with flow, pressure and temperature measurement in one single device, for point of use applications.

Again, the VPFlowScope® in-line shows you when, where and how much you can save. The advanced features of the VP-FlowScope® in-line complete the product family and it is just as easily integratable as the VPFlowScope® probe.

General applications

- > Point of use measurement
- Cost allocation
- > Sub metering of compressed air
- > Ring networks (bi-directional)
- > Leakage monitoring
- Consumption metering of Nitrogen,
 Carbon Dioxide, Argon, Helium or any
 other dry, non-corrosive and inert
 gases

Specifications

VPFlowScope® in-line

Measuring principle	Thermabridge mass flow sensor					
Range and diameter	Flow (SI)	Flow (IM)	Size			
VPS.R080.M050	0.32 80 (m³n/hr)	0.19 50 SCFM	0.5 inch			
/PS.R250.M100	0.88 250 (m³n/hr)	0.52 150 SCFM	1 inch			
/PS.R01K.M200	2.86 1000 (m³n/hr)	1.68 600 SCFM	2 inch			
Reference conditions	0° C, 1013.25 mbar 32° F, 14.65 psi					
Gases	Compressed air, Nitrogen, or any other inert, non condensing gases					
Sensors	Range (SI)	Range (IM)				
Flow	Thermabridge mass flow se					
Accuracy	0,5% FSS with calibration report under calibration conditions with air 5% FSS without calibration report					
Pressure PN16	0 16 bar gauge	0 250 psi gauge				
Pressure PN35	0 35 bar gauge	0 500 psi gauge				
Accuracy	± 1.5% FSS (0 60°C)	± 1.5% FSS (32 14	0°F)			
Temperature	0 60° C 32 140° F					
Accuracy	± 1° (from 10 mn/sec and up) (At zero flow conditions, temperature					
	reading increases due to self-heating by the flow sensor)					
Display	Features					
Technology	LCD, 3 line display					
Memory (optional)	2 million points data logger					
Data outputs						
Analog	4 20 mA or pulse, selectable via installation software					
Serial IO	Modbus RTU					
USB	Mini USB interface for configuration (display version only)					
Mechanical	Size		Weight			
/PS.R080.M050	135 mm x 49 mm x 85 mm	0.7 Kg 1.54 lbs				
/PS.R250.M100	135 mm x 54 mm x 91 mm 5.31" x 2.12" x 3.58"		0.7 Kg 1.54 lbs			
/PS.R01K.M200	150 mm x 88 mm x 124 mm 5.9" x 3.46" x 4.88" 1.6 Kg 3.53					
P grade	IP65 NEMA 4 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					
Total length with pipes	Length		Pipe weight			
0.5"	304 mm 12"		0.3 Kg 0.66 lbs			
1"	501 mm 19.7"	501 mm 19.7"				
2"	750 mm 29.5"		3.2 Kg 7.04 lbs			
Electrical						
Connection type	M12, 5 pin connector, female, and optional USB mini connector					
Power supply	12 24 VDC ± 10% CLASS 2					
Power consumption	2,4 Watt (no flow) 4,8 Watt (full flow) +/- 10%					
		ull flow) +/- 10% @24VDC				

Smart, simple and complete.

The VPFlowScope[®] in-line provides not just one, but all required parameters: flow, pressure, and temperature are measured at the same time, at the same point. It also features an optional built-in 2 Million point data logger. This means: no more hassle with external loggers, just plug in, press record and go!

	PFlowScope So Ban Ban Huments com				ystal clear display vo million point data logger eermabridge™ flow sensor eessure sensor mperature sensor 5485 Modbus RTU 20 mA JIse 58 interface	
Order codes	Flow Range	Option	Display	Option	Connector	
VPS.R080.M050	0.32 80 (m³n/hr)	DO	no display	C5	5 pin M12	
VPS.R250.M100	0.88 250 (m³n/hr)	D10	Display	C8	8 pin M12, for remote display	
VPS.R01K.M200	2.86 1000 (m ³ _n /hr)	D11	Display + 2 M point logger	* Only avail	able for VPFlowScope in-line D0	
Basic Features		Display	features	Connector types		
Thermabridge Flow sensor		3 Line disp	olay	M12, 5 pin for standard application		
Pressure and temperature sensor		Multi-ses	sion datalogger	M12, 8 pi	n for remote display function	
420 mA or Pulse output (switchable)		Keypad fo	r configuration			
RS485 Modbus RTU		USB Cable	e included* *not available for VPFlow	Scope D0		
Calibration options						
VPA.0009.001	ISO Calibration report ± 0,5 % FSS					
VPA.5000.911	Bi-directional measurement option					
Tubing kits						
VPA.1200.005	0,5 inch, in- and outlet tubes					
VPA.1200.010	1 inch, in- and outlet tubes					
VPA.1200.020	2 inch, in- and outlet tubes					
Accessories	D0, D10 and 11 v	ersion				
VPA.5000.005	Cable, 5m / 16.4 ft with M12 5pin connector on one side, open wires on other side.					
VPA.5000.010	Cable, 10m / 32.9 ft with M12 5pin connector on one side, open wires on other side.					
VPA.0000.200	Power supply (12V, 5pin, VPFlowScope)					
Accessories	D0 version only					
VPA.5001.205		Interface box JB5 with 5m/16.4 ft cable				
	+ 12 VDC power supp					
VPStudio software						
SFT.5003.300	Licensed edition VPS	2.V/DT				
006.6006.116	Licensed edition VPS					