

## VP Flow Mate Probe

The VPFlowMate® probe is an easy to install solution for compressed air and technical gases. The VPFlowMate® probe can be installed in pipe sizes from 2 inches and up.

The VPFlowMate® can be connected directly to a PC and most analogue and industrial equipment. An optional integrated display is provided for direct read out of flow and total volume.

Together with the VPFlowTerminal remote display, the VPFlowMate® forms a plug and play solution for compressed air flow metering.



VP INSTRUMENTS

### Features:

- Silicon (solid state) flow sensor
- 12..24 Volt wide range power input
- Flow and totalizer read out via RS232
- Optional linear flow signal via 4..20 mA
- Optional pulse output
- Optional built-on 8 x 2 LCD display
- Configurable via easy to use software

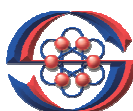
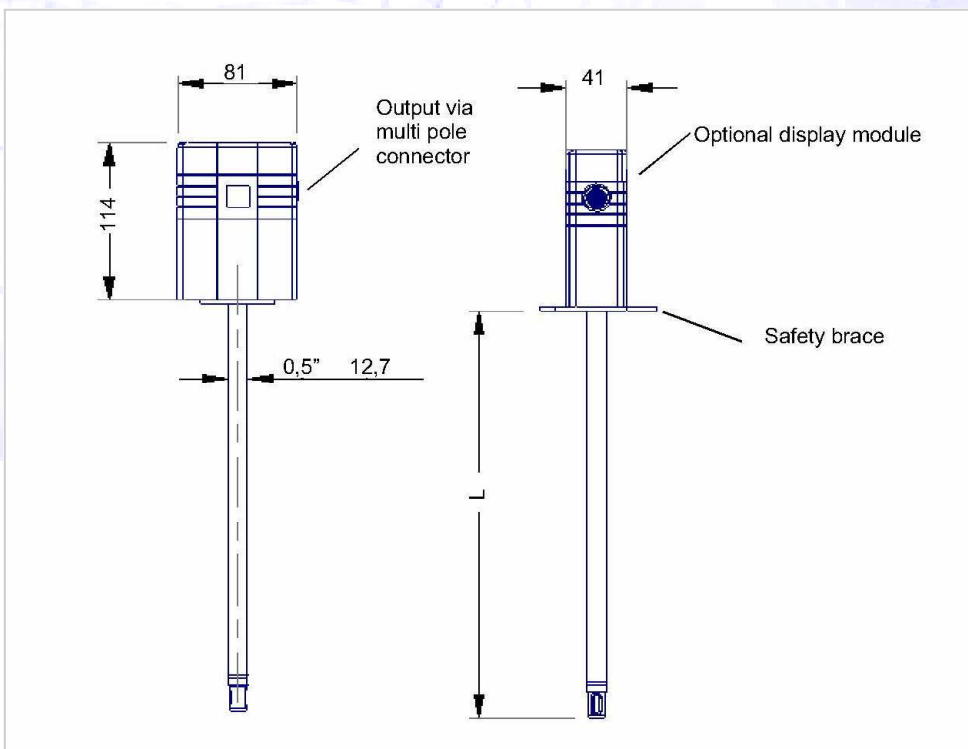
### Benefits:

- Versatile: for various pipe sizes
- Universal: Data output via RS232, 4..20 mA, pulse and optional display
- Easy: Straightforward installation and use

### Applications:

- Compressed air metering
- energy monitoring
- testing of pneumatic systems

### Dimensions:



## Technical Specifications:

### Measurement

Average measurement uncertainty (ideal field conditions)	3% of measured value + 0.5% of span. Please note that for insertion probes, the field accuracy depends on installation conditions.*
Reproducibility	< 0.5% of measured value per year when used with clean compressed air.
Ranges	0..150 mn/ sec (mn is referenced to 0o Celsius, 1013.25 mbar) 0...80 mn/ sec & 0...20 mn/ sec
Zero cutoff point	Depends on model; typically 1 to 2% of full scale
Temperature range	0..50 o C. **
Pressure limit	16 bar maximum pressure ***
Humidity range	Up to 95% Relative Humidity, non condensing
Gases	Compressed Air, Nitrogen, non corrosive gasses

### Mechanical

Connections	Connected with 0,5" compression fitting
Protection type	IP55. Not for outdoor use.
Housing material	Aluminum, painted
Wetted materials	Epoxy, glass, stainless steel 316
Corrosion resistance	Highly corrosive or acid environments should be avoided

### Electrical

Output	RS232, 4..20 mA, pulse
Power supply	12..24 Volt DC +/- 10% Class II (CUL requirement) Power consumption < 100 mA. Peak power at startup 500 mA
Connections	Multi pole connector

### Approvals/ Conformity

CE	EN 61326-1
CE	EN 50082-1
CUL	14 AZ, Industrial Control Equipment

**\* NOTE:**

See technical guidelines for installation effects and ideal installation requirements.

**\*\* NOTE:**

The temperature error is typically less than 0.1% of reading per degree Celsius.

**\*\*\* NOTE:**

The pressure error is typically 0.3% of full scale per bar deviation of the calibration pressure. The pressure error of the VPFlowMate® is specified for a range of +/- 3 bar around the calibration pressure. Ask for custom calibration when using the VPFlowMate® at atmospheric or low line pressure.

## Order Configuration Table:

No	Item	Code	Description
<b>Measurement:</b>			
1.	Product group	VPP	Insertion probe
2.	Range	R150	0..150 mn/sec (extended measurement range)
		R080	0..80 mn/sec (standard measurement range)
		R020	0..20 mn/sec (special)
3.	Probe length	P300	Length = 300 mm
		P400	<b>Length = 400 mm</b>
		P600	Length = 600 mm
<b>Output:</b>			
A.	Display option	DO	No display
		D1	LCD display, flow & totalize (digital)
B.	Output	S110	4..20 mA output + pulse output (standard)
C.	Connector	E200	Multi pole connector

