

Specifications

Flow sensor

Measuring principle	Thermal mass flow
Flow range:	0 (0.5)...150 m/sec
Accuracy:	2% of reading under calibration conditions; Please refer to the user's manual for details. Recommended pipe diameter: > 1 inch
Reference conditions:	0 degrees Celsius, 1013.25 mbar
Gases :	Compressed air, Nitrogen and inert, non condensing gases
Gas temperature range:	0....+60 deg C (standard), 0...+100 deg C (optional)

Pressure sensor

Pressure sensor range:	0...16 bar gage
Accuracy:	+/- 1.5% FSS (0...60 deg C) Temperature compensated

Temperature sensor

Temperature sensor range:	0....+60 deg C
Accuracy:	+/- 1 deg C (from 10 m/sec and up) + 5 deg C (at zero flow conditions)

Data outputs

Digital:	RS485, MODBUS RTU protocol
Analog:	4..20 mA output, selectable via software to indicate flow, pressure or temperature

Display/data logger

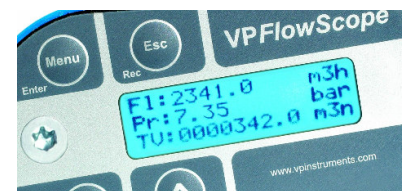
Technology:	Liquid Crystal (LCD)
Back light:	Blue, with auto power save
Data logger	500,000 points

Mechanical

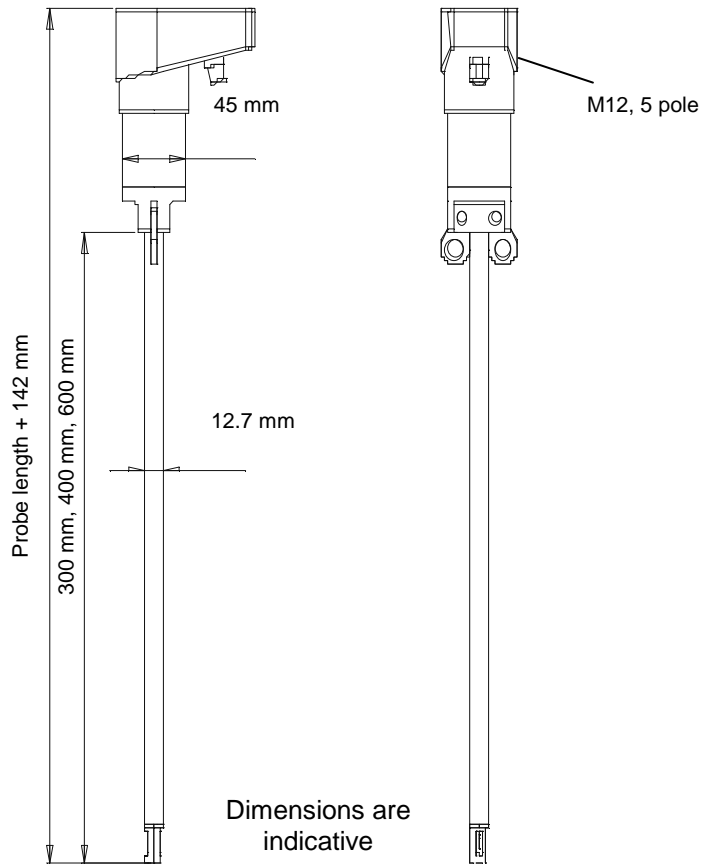
Probe lengths:	400 mm (300, 600 mm)
Process connection:	Swagelok compression fitting, 0,5 inch
Pressure rating	PN20
Protection grade	IP52 when mated to display module IP63 when mated to connector cap
Wetted materials	PPS GF40 (Fortron 1140 L4), Glass epoxy, Silicon (glass coated), Epoxy

Electrical

Connection type:	M12, 5 pole
Power supply:	12...24 VDC +/- 10 % Class 2 (UL)
Power consumption	0,8 Watt (no flow)... 1,36 Watt (full flow) 33 mA (no flow).... 60 mA (full flow) @24VDC
UL/ CUL:	14 AZ, Industrial Control Equipment
CE:	EN 61326-1, EN 50082-1



Drawings



Order codes

Start kits:

For separate sensors and accessories see VPFlowScope pricelist.

Order code	Description
VPS.R150.PXXX-KIT R= range (0,5..150m _n /sec) P= probe length (300,400,600 mm)	Value kit includes: Software for configuration and data processing Desktop interface + power supply 5 m electrical cable (M12 connector) Compression fitting with Teflon ferrules Safety chain English user manual