Technical data sheet

VPFlowMate in-line®

Specifications

Measurement:	- Total consumption - Mass flow

Flow sensor:	
Measuring principle:	Thermal mass flow
Flow ranges:	See range table below
Accuracy:	<0.5% of full scale (when with ISO calibration and tubing kit)
Reference conditions:	0 degrees Celsius, 1013.25 mbar
Gases:	Compressed air, Nitrogen and inert, non condensing gases
Gas temperature range:	0....+50 deg C
Pressure range:	0..16 bar gage
Humidity range:	Up to 95% Relative Humidity, non condensing

Display:

Technology:	Liquid Crystal (LCD)		
Back light:	Yellow		
Read out of:	Mass flow:	Model	Unit
		VPF.R060.M050.D1	ln/min
		VPF.R200.M050.D1	ln/min
		VPF.R01K.M200.D1	m^3n/hr
	Total consumption in m3n		

Range table

Model	Qmin (m^3n/hr)	Qmax (m^3n/hr)	Qmin (ln/min)	Qmax (ln/min)	DN (mm) indicative	Process connection
VPF.R060.M050.D1	0.32	60	5.3	1000	15	0.5” BSP
VPF.R200.M100.D1	0.88	200	14.7	3333	25	1” BSP
VPF.R01K.M200.D1	3.53	1000	58.9	16666	50	2” BSP

Mechanical:

Connections:	See range table front page
Protection grade:	IP65, avoid direct sunlight and rain
Housing material:	Aluminium, painted
Wetted materials:	Epoxy, glass, stainless steel 316, anodised aluminium
Corrosion resistance:	Highly corrosive or acid environments should be avoided

Electrical:

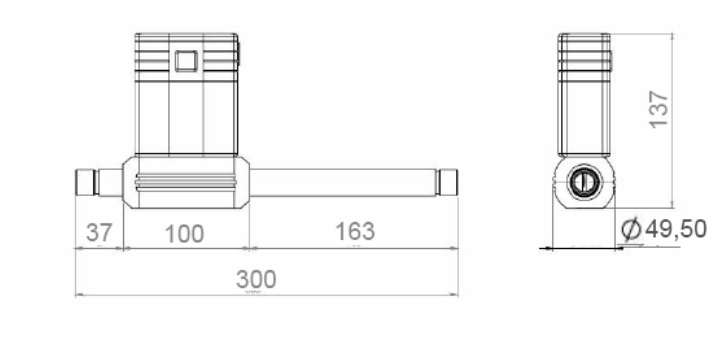
Outputs:	RS232, 4..20mA (isolated), pulse (isolated)
Power supply:	12...24 VDC +/- 10 % Class 2 (UL) Power consumption < 100 mA. Peak power at start up 500mA
Connection type:	M12 (8 pole)

Approvals/conformity:

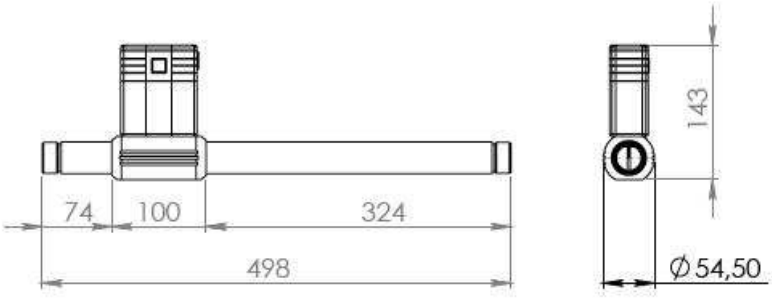
CE:	EN 61326-1, EN 50082-1
UL/ CUL:	14 AZ, Industrial Control Equipment

Technical drawings

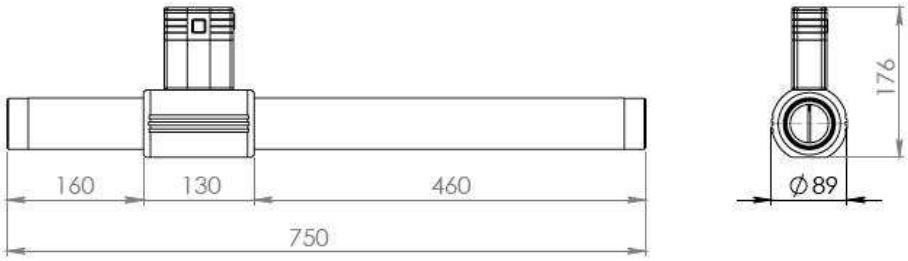
0,5 inch in-line flow meter: VPF.R060.M050.D1



1 inch in-line flow meter: VPF.R200.M100.D1



2 inch in-line flow meter: VPF.R01K.M200.D1



Part number: VPF.RXXX.MXXX.D1		
VPF	VPFlowMate in-line	Options:
RXXX	Flow range in m^3n/hr:	060
		200
		1000
MXXX	Model type in inch:	0.5”
		1”
		2”
D1	Display	D1: display

Notes:
- Dimensions are indicative. The overall length may vary +/-5 mm.
- Meter run upstream length of 15* diameter is integrated.
- For installation, please see the user manual and installation guidelines as outlined in ISO14511(2001) for additional upstream length requirements in case of elbows, diameter changes and other upstream objects.