

VPFlowMate in-line



Description

The VPFlowMate® combines state of the art silicon sensor technology with ease of use.

Because of the high turndown ratio and low pressure drop, the VPFlowMate® is a suitable for many applications.

With a RS232 and 4..20 mA output, the VPFlowMate® connects directly to a PC and most industrial equipment.

Applications

Compressed air metering, energy monitoring, testing of pneumatic systems, quality inspection and testing, purge metering.

Benefits

- Versatile: Large measurement range, low pressure drop
- Universal: Flow data in any application via RS232, 4..20 mA and pulse
- Easy: straightforward installation and use

Features

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



VFlowMate in-line



Specifications

Measurement specifications

Accuracy : <0.5% of full scale. A calibration report is issued with each flow meter
 Ranges : See range table below. Ranges specified at 20 deg C
 Zero cutoff point : Depends on model; typically 1 to 2% of full scale
 Temperature range** : 0..50 degC
 Pressure limit : Designed to 16 bar maximum pressure***
 Humidity range : Up to 95% Relative Humidity. Non condensing
 Gases : Compressed air, non corrosive gases

Mechanical specifications

Connections : See table below
 Dimensions : Refer tot technical drawings
 Protection type : Designed to meet IP 55
 Wetted materials : Epoxy, glass, stainless steel 316, anodised aluminium
 Corrosion resistance : Avoid highly corrosive or acid environments

Electrical specifications

Outputs : RS232, 4..20 mA, pulse ; via cable or multi connector
 Power supply : 12..24 Volt DC

Approvals/ conformity

CE : EN 61326-1
 CE : EN 50082-1

NOTE:

Specifications are subject to change without prior notice.

** NOTE:

The temperature error is typically less than 0.2% of reading per Degree Celsius.
 Optional temperature calibration can be specified



Range table Models printed in grey are produced on request.

MODEL	Range (m ³ /hr)*	Range (l./min)*	G (inch)	DN (mm)	Connectors
VPF-R0100-	25	25	1 "	25	1 " BSP
VPF-R050-M150	50	830	1½ "	40	1½ " BSP
VPF-R0100-M150	100	1660	1½ "	40	1½ " BSP
VPF-R0250-M150	250	4167	1½ "	40	1½ " BSP
VPF-R0700-M200	750	12500	2 "	50	2 " BSP

*m_v and l_v are referenced to 0_v Celsius, 1013.25 mbar

VPFlowMate in-line

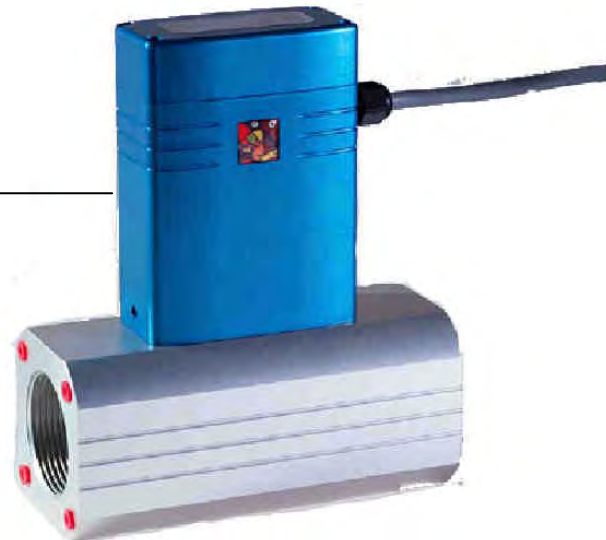


Features and benefits

Versatile outputs
RS232, 4..20 mA (linear), pulse

Rugged, modular design
IP 65 housing design
Fixed cable or connector output
Optional LCD display module

Low maintenance
No moving parts
Long re-calibration interval



Built-on display option

Features flow and totalizer readout

- Direct readout of flow
- Direct readout of total consumption
- Clear back-lit display



VPFlowMate in-line



Order configuration table

1. Group	2. Range	3. Diame- ter
-------------	-------------	---------------------

VPF R250 M150

A. LCD?	B. Outputs	C. Connector
------------	---------------	-----------------

D1 S010 E200

No. **Item** **Code** **Description**

Measurement:

Note: Gray printed options are produced on request

1.	Product group	VPF	VPFlowMate in line mass flow meter
2.	Range	R025-M100 R050-M150 R100-M150 R250-M150 R750-M200	0...25 m ₃ /hr [415 l _v /min]* 0...50 m ₃ /hr [830 l _v /min] 0...100 m ₃ /hr [1660 l _v /min] 0...250 m ₃ /hr [4167 l _v /min] 0...750 m ₃ /hr [12500 l _v /min]
3.	Tube diameter	M***	Is shown in combination with range code M100 = 1", M150 = 1.5", M200= 2"

Outputs:

A.	Display option	D0 D1	No display LCD display, flow and totalizer (digital)
B.	Outputs	S000 S010 S110	Serial (RS232) only 4..20 mA linear output 4..20 mA linear output + pulse output
C.	Connector option	E200	Multipole connector on housing

* In/min values may be rounded

VPFlowMate is a registered trademark of Van Putten Instruments B.V. Patents have been applied for and are pending.