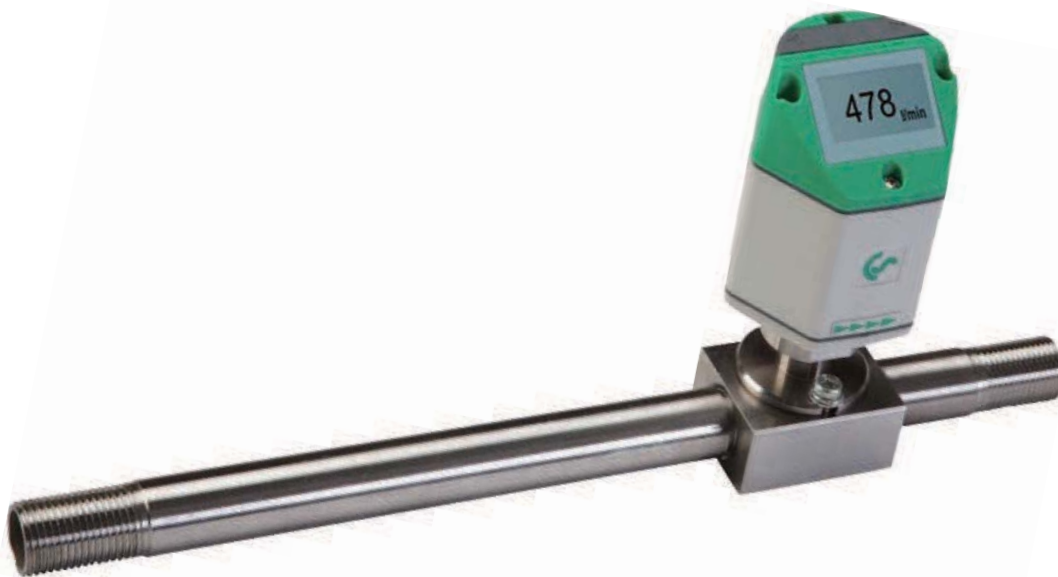


VA 410 flow / consumption sensor (in-line type)



The CS flow sensor **VA 410** is based on the thermal mass flow principle. It measures volumetric standard flow over a wide measuring range. The result is pressure and temperature independent.

VA 410 is an in-line type sensor which is mounted into the pipe. There are 4 models available for 1/4", 1/2", 3/4" and 1" tubes with G type threats at both ends. The sensor is available in two measuring ranges and with or without display.

The version with display shows the actual volumetric flow and the total consumption. Via the keyboard consumption counter can be set.

Various settings such as gas type, flow unit, reference standards, can be set ex factory or through our service kit. The service kit consists of PC software and interface box which connects the sensor to the USB port of the PC. Every sensor includes an analogue output (4...20mA) for flow and an isolated pulse output for the consumption counter.

Volumetric flow ranges

Flow measuring range VA 410			
Inch	Inner tube diameter (mm)	Measuring range	
		From	To
1/4"	8.8	0.8	120l/min
1/2"	16.1	0.2	80m ³ /h
3/4"	21.7	0.2	140m ³ /h
1"	27.3	0.2	240m ³ /h

Features

- ◆ In-line type for high accuracy in small tube diameters.
- ◆ Particularly suitable for measuring process gases such as N₂, Ar, He etc.
- ◆ Thermal mass flow, independent of pressure and temperature changes
- ◆ IP65 casing provides robust protection in rough industrial environment
- ◆ Very fast response time

Technical data VA 410

Measured unit	m ³ /h, m ³ /min, l/min, cfm
Accuracy	±(2% of measured value + 0.3% full scale)
Medium	Air, gas, non explosive
Operating temperature	-30 ~50 °C
Operating pressure	Up to 50 bar
Analogue output	Signal: 4 ~ 20 mA Scaling: 0 ~ max range
Pulse output	1 pulse per m ³
Power supply	12 ~30 VDC, 100 mA

Order no.	Description
0695 0410	VA 410
0553 0104	Connection cable 5m, 5 pole
0553 0105	Connection cable 10 m, 5 pole

Please refer to page 7 for complete order form