



VA 410

The compact consumption counter for compressed air and gases

Special features

- Optimum accuracy due to compact design
- Integrated inlet/outlet section
- Stabilized flow profile
- Indication of the actual value in m³/h resp. l/min and the counter in m³ resp. l



Technical data VA 410

Parameters:	m ³ /h, l/min acc. DIN 1945, ISO 1217 20°C, 1000 mbar
Adjustable via software:	m ³ /h, m ³ /min, l/min, l/s, ft/min, cfm, m/s, kg/h, kg/min
Meas. principle:	calorimetric measurement
Sensor:	2 x silicium chip
Meas. medium:	air, gases
Gas types adjustable via software:	air, nitrogen, argon, helium, CO ₂ , oxygen
Meas. range:	see table at the right
Accuracy:	± 3 % m. v. ± 2 % m. v. via 5 point ISO precision calibration
Operating temp.:	-30...80 °C
Operating pressure:	up to 16 bar
Analogue output:	4...20 mA for m ³ /h resp. l/min
Pulse output:	1 pulse for m ³ , signal high 24 VDC, for 30 ms
PC connection:	SDI interface
Power supply:	24 VDC smoothed ± 15 %
Burden:	< 500 Ohm
Housing:	polycarbonate
Meas. section:	stainless steel, 1,4301
Mounting thread meas. section:	1/4", 1/2", 3/4", 1", 1 1/2" external thread

Flow measuring ranges VA 410

Inch	Inner pipe diam. mm	Measuring range from	to	Total length of meas. section mm
1/4"	8.8	0.8	90 l/min	194
1/2"	16.1	0.2	80 m ³ /h	324
3/4"	21.7	0.2	140 m ³ /h	439
1"	27.3	0.2	240 m ³ /h	549
1 1/2"	41.8	1.8	400 m ³ /h	839

Description

Description	Order no.
VA 410 with integrated 1/4" measuring section	0695 0410
VA 410 with integrated 1/2" measuring section	0695 0411
VA 410 with integrated 3/4" measuring section	0695 0412
VA 410 with integrated 1" measuring section	0695 0413
VA 410 with integrated 1 1/2" measuring section	0695 0414

Connection cables:

Connection cable, 5 m (power supply, analogue output, pulse output)	0553 0104
Connection cable 10 m (power supply, analogue output, pulse output)	0553 0105

Additional accessories:

CS Service Software for FA/VA 400 sensors including PC connection set, USB adapter and interface adapter to sensor as well as CS Soft Professional software for data recording	0554 2005
Mains unit in wall housing 230 VAC/24 VDC	0699 3395
External wall display multifunction measuring instrument DS 300	see page 22
5 point precision calibration with ISO certificate	3200 0001