

# THE CONSUMPTION COUNTER FOR COMPRESSED AIR AND GASES

## VA 420

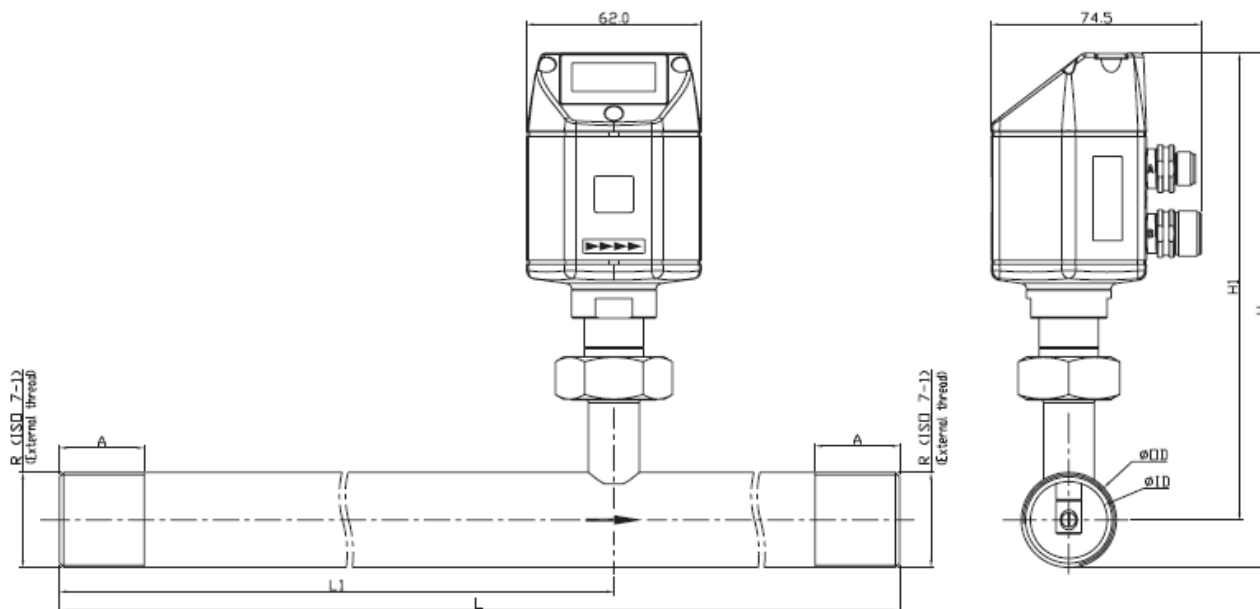


### Technical data VA 420:

<b>Parameters:</b>	m <sup>3</sup> /h, l/min (1000 mbar, 20 °C) in case of compressed air resp. Nm <sup>3</sup> /h, NI/min (1013 mbar, 0 °C) in case of gases;
<b>Adjustable via keypad:</b>	m <sup>3</sup> /h, m <sup>3</sup> /min, l/min, l/s, ft/min, cfm, m/s, kg/h, kg/min;
<b>Meas. principle:</b>	calorimetric measurement;
<b>Sensor:</b>	2 x silicium chip;
<b>Meas. medium:</b>	air, gases;
<b>Gas types adjustable via software:</b>	air, nitrogen, argon, nitrous oxide, CO <sub>2</sub> , oxygen;
<b>Meas. range:</b>	see table below;
<b>Accuracy:</b>	±1,5% of m.v., ±0.05% of f.s. On request: Special calibration via 5 point ISO calibration certificatet;
<b>Operating temp.:</b>	-30...80 °C;
<b>Operating press.:</b>	up to 16 bar. Optional up to PN 40;
<b>Analogue output:</b>	4...20 mA for m <sup>3</sup> /h resp. l/min;
<b>Pulse output:</b>	1 pulse per m <sup>3</sup> resp. per liter galvanically separated;
<b>PC connection:</b>	SDI interface;
<b>Power supply:</b>	24 VDC smoothed ± 15 %;
<b>Burden:</b>	< 500 Ohm;
<b>Housing:</b>	polycarbonate;
<b>Meas. section:</b>	stainless steel, 1.4301 or 1.4404
<b>Mounting thread meas. section:</b>	R 1/4", R 1/2", R 3/4", R 1", R 1 1/4", R 1 1/2", R 2" external thread.

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Flow measuring ranges VA 420 for compressed air (ISO 1217: 1000 mbar, 20°C)

Connection thread	Outer pipe dia. mm	Inner pipe dia. mm	Measuring range		L mm	L1 mm	H mm	H1 mm	A mm
			from	to					
R 1/4"	13,7	8,5	0,8	90 l/min	194	137	174,7	165,7	15
R 1/2"	21,3	16,1	0,2	90 m3/h	300	210	176,4	165,7	20
R 3/4"	26,9	21,7	0,3	170 m3/h	475	275	179,2	165,7	20
R 1"	33,7	27,3	0,5	290 m3/h	475	275	182,6	165,7	25
R 1 1/4"	42,4	36,8	0,7	480 m3/h	475	275	186,9	165,7	25
R 1 1/2"	48,3	41,8	1	550 m3/h	475*	275	189,9	165,7	25
R 2"	60,3	53,1	2	900 m3/h	475*	275	195,9	165,7	30

\* Attention: Shortened inlet section! Please observe the recommended minimum inlet section (length = 10 x inner diameter) on site.