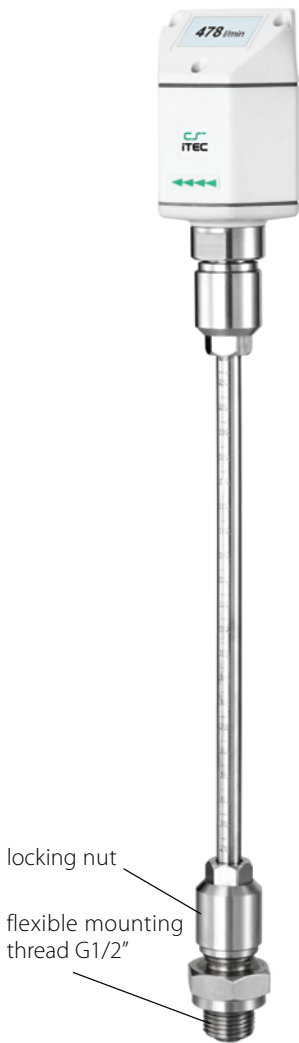
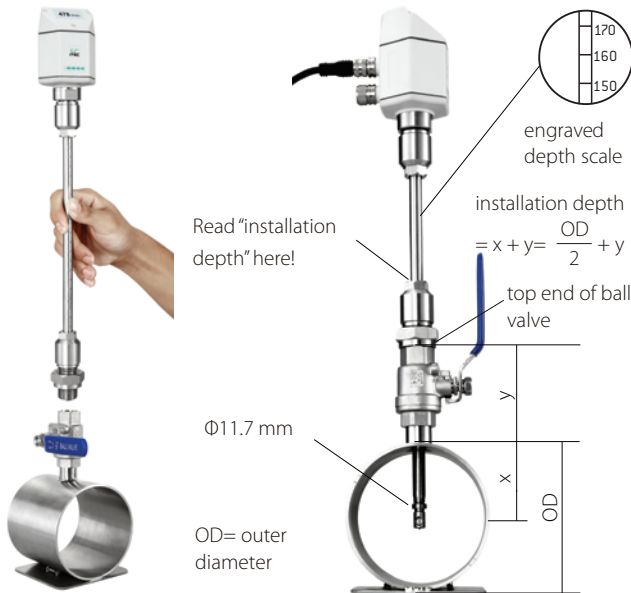


S 400 VERSATILE FLOW/CONSUMPTION SENSOR (INSERTION TYPE)



At the touch of a button:
 - reset of counter reading
 - selection of units
 - setting of pipe diameter



Sensor installation through a 1/2" ball valve under pressure

Features

- Insertion type sensor for installations under pressure
- Thermal mass flow, independent of pressure and temperature changes
- Velocity, flow and consumption can be displayed
- IP65 casing provides robust protection in rough industrial environment
- Very fast response time
- High accuracy and wide measuring range
- Tube diameters of 1" to 12" . Other diameters on request

Volumetric flow ranges S 400

Inch	DN	Di (mm)	S 400-S (m ³ /h)	S 400-M (m ³ /h)	S 400-H (m ³ /h)
1"	DN25	27.3	0.5 ... 147.7	0.6 ... 294.7	0.6 ... 356.9
1¼"	DN32	36.0	0.9 ... 266.3	1.2 ... 531.5	1.2 ... 643.5
1½"	DN40	41.9	1.2 ... 366.7	1.5 ... 731.9	1.5 ... 886.2
2"	DN50	53.1	2.0 ... 600.1	2.5 ... 1197.6	3 ... 1450.0
2½"	DN65	68.9	3.5 ... 1026.5	5.0 ... 2048.6	5 ... 2480.4
3"	DN80	80.9	5.0 ... 1424.4	7.0 ... 2842.7	7 ... 3441.9
4"	DN100	100.0	10 ... 2183.3	12 ... 4357.2	12 ... 5275.7
5"	DN125	125.0	13 ... 3419.6	18 ... 6824.4	18 ... 8263.1
6"	DN150	150.0	18 ... 4930.1	25 ... 9838.9	25 ... 11913.1
8"	DN200	200.0	26 ... 8785.6	33 ... 17533.3	42 ... 21229.5
10"	DN250	250.0	40 ... 13743.9	52 ... 27428.5	60 ... 33210.7
12"	DN300	300.0	60 ... 19814.8	80 ... 39544.1	100 ... 47880.4

Stated flow values are at standard conditions of Ps=0.1MPa(a) and Ts=20 °C with medium air.

The table above shows flow ranges up to 300 mm pipe diameter at standard conditions in air. At other standard conditions and in other gases flow ranges are different and data are available on request.

In larger pipe diameters flow can also be measured.

Technical data S 400

Measured unit	m ³ /h, m ³ /min, l/min, cfm, m/s, kg/min, kg/h, kg/s
Accuracy	±(3% of measured value + 0.3% full scale)
Medium	Air, gas, non explosive
Operating temperature	-30 °C ... +140 °C probe tube -30 °C ... +70 °C casing -10 °C ... +50 °C casing with local display
Operating pressure	Up to 5.0 MPa
Analogue output	Signal: 4 ... 20 mA Scaling: 0 ... max range Max. load: ≤500 R
Pulse output	1 pulse per consumption unit, insulated switch output, max. 30 VDC, 20 mA
Power supply	12 ... 30 VDC, 100 mA

S 400 VERSATILE FLOW/CONSUMPTION SENSOR (INSERTION TYPE)

Order form

Please use this order form for inquiries and orders. Please also provide us information about your application, such as nominal flow rate, pressure, etc. so that we can offer the most suitable device and prepare all settings for you.

S 400	Thread	Direction	Medium	Calibration	Display	Description
0695 4001						S 400 insertion type flow sensor, 220mm shaft
0695 4011						S 400 insertion type flow sensor, 160mm shaft
0695 4021						S 400 insertion type flow sensor, 300mm shaft
0695 4031						S 400 insertion type flow sensor, 400mm shaft
	A					G 1/2" <i>Standard</i>
A1005	B					NPT 1/2" adaptor
A1006	C					PT 1/2" adaptor
A1023		A				Flow from left to right
A1024		B				Flow from right to left <i>Standard</i>
A1007			A			Medium Air <i>Standard</i>
A1008			B			Medium CO ₂
A1009			C			Medium O ₂ (oil & grease free cleaned)
A1010			D			Medium N ₂
A1011			E			Medium N ₂ O
A1012			F			Medium Ar
A1013			G			Medium Natural gas (exact gas mix required)
A1015			H			Others (specify the gas or gas mix)
A1016			I			Medium He (Real gas calibration)
				A		Standard range calibration <i>Standard</i>
A1020				B		Max range calibration
A1021				C		High speed calibration
					A	No display <i>Standard</i>
A1022					B	With display

Order code example: 0695 4021-AADBB: stands for: S 400 with 300 mm shaft, G1/2" thread connection, flow left to right, flow medium N₂, max range calibration and display

Order No.	Description
0553 0104	Sensor cable 5 m, with M12 connector, open wires
0553 0105	Sensor cable 10 m, with M12 connector, open wires
0554 2005	Service kit for sensor configuration including software
0554 0007	Power supply wall mountable, input: 85...264 VAC, output: 24 VDC, 15W
0554 0107	Mains unit 100-240 VAC/24 VDC, 0.5 A for S 400/S 201 Series, 2 m cable
3200 0001	Re-Calibration of flow sensor with certificate
3200 0005	Oil & grease free cleaned option for flow sensors (for Oxygen it is already included in A 1009)
3200 0020	Real gas calibration in selected gas to ensure best accuracy
0553 0122	Sensor cable, 5 pole, AWG24, 5.0 mm outer diameter, black (per meter)

In cases where the desired measuring range exceeds our specification, please contact us for high speed solution.