

OVERVIEW

Operation

WGAA Pitot Tube Flowmeter is Bass Instruments's latest technology base on different pressure technology specially designed for compressed air applications. As it has 1 1/2" insertion connection probe and compact designed sensor, it can be used on pipes from DN25-DN60. In some higher pressure applications, it can be installed / removed without stopping the fluid as the pipe is thinner, field engineers will be able to insert the meter to pipe very easily. Also due to its working principle, it is less effected by the water contents in the compressed air.

Features

- Pharmaceutical industry
- Chemical processes
- Mechanical engineering
- Metal industries
- Petrochemicals

Features

- Cost effective
- High sensitivity
- Resistant to chemical liquids
- Easy to install
- High accuracy
- Self-diagnose and remote diagnose function to provide with the best support
- Multi-variable flowmeter, measures flow rate, temperature, pressure, FAD measurement available
- Wide measurement range
- Fast response time
- No mechanical wear part
- Selectable gas (Air, nitrogen, O₂, etc.)
- Insertion mounting, available for hot tapping
- Bi-directional flow measurement



OPERATING DATA

Working Pressure

16 bar max.

Temperature Limit

-40...150°C

Ambient Temperature

-20...60°C

Accuracy

±1.5 % RD, ±0.3 % FS

Repeatability

0.5% RD

Response Time

1 second

Connection

G 1"

Parameter Measured

Flow rate, temperature, pressure

Ambient Humidity

5...100% for sensor

MATERIALS

Wetted Part

Brass or AISI 316

MEASURING RANGES

Pipe Size Range

DN25...DN600

ELECTRICAL DATA

Signal Output

4-20 mA/ 0-10 VDC / pulse

Power Supply

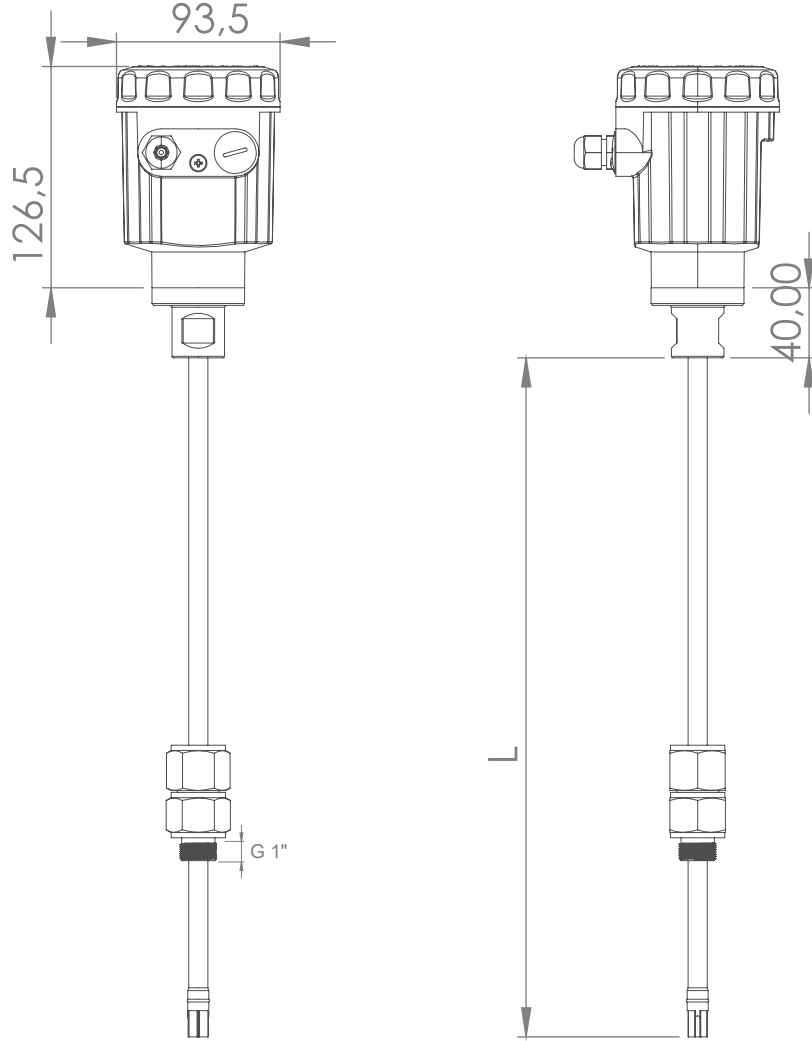
16...28 VDC, 150 mA max

Communication

RS485 Modbus-RTU



TECHNICAL DRAWINGS AND DIMENSIONS



ORDERING

Pipe inside diameter			0 Bar G		4 Bar G		6 Bar G		7 Bar G		8 Bar G	
DN	mm	Inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DN25	27.3	1"	0.19	1.93	0.43	4.29	0.51	5.08	0.54	5.43	0.58	5.76
DN32	36	1 1/4"	0.34	3.36	0.75	7.47	0.88	8.83	0.94	9.44	1.00	10.01
DN40	41.9	1 1/2"	0.45	4.55	1.01	10.11	1.20	11.96	1.28	12.79	1.36	13.56
DN50	53.1	2"	0.73	7.30	1.62	16.24	1.92	19.21	2.05	20.53	2.18	21.78
DN65	68.9	2 1/2"	1.23	12.29	2.73	27.34	3.23	32.34	3.46	34.57	3.67	36.66
DN80	80.9	3"	1.69	16.95	3.77	37.70	4.46	44.59	4.77	47.66	5.05	50.55
DN100	110	4"	3.13	31.33	6.97	69.70	8.24	82.44	8.81	88.12	9.35	93.45
DN125	133.7	5"	4.63	46.29	10.30	102.97	12.18	121.78	13.02	130.18	13.81	138.06
DN150	159.3	6"	6.57	65.71	14.62	146.17	17.29	172.89	18.48	184.80	19.60	195.99
DN200	200	8"	10.36	103.58	23.04	230.40	27.25	272.52	29.13	291.30	30.89	308.94
DN250	250	20"	16.18	161.85	36.00	360.01	42.58	425.80	45.52	455.15	48.27	482.72
DN300	300	12"	23.31	233.06	51.84	518.41	61.32	613.16	65.54	655.42	69.51	695.11

ORDERING

Model	
WGAA	Wet Gas Insertion

Probe Length	
DKS	DN25...DN100
DOS	DN25...DN250
DUS	DN25...DN600

Probe Material	
SS	AISI 316
BR	Brass

Connection	
CS	Carbon Steel
SS	Stainless Steel

Pressure Rating	
10	10 bar max.
16	16 bar max.

Remote Display	
C	Compact
R	Remote

Accessories	
B	With ball valve
N	None

Pipe Size	
...	Specify in mm

