

DIFFERENTIAL PRESSURE FLOW METER

PTF600 Pitot Tube Flow Meter

Flow Measurement
& Monitoring



DESCRIPTION

PTF600 Heavy Duty Pitot Tube Flow Meter uses the differential pressure measurement principle, suitable for wet and dry air measurement. The DP transmitter turndown ratio is 33:1, offering a better stability and wider measurement range. The unique water-proof design eliminates issues caused by water condensation in the capillary. It is less affected by the water contents in the compressed air. Bluetooth communication via APP allows plant operators to monitor, diagnose and configure the flowmeter from their mobile device during maintenance.

FEATURES

- ✓ Dry and wet air measurement
- ✓ Heavy duty, water-proof design
- ✓ 33:1 turndown ratio
- ✓ Insertion or inline type flow meter
- ✓ Integrated pressure, temperature sensor, FAD measurement
- ✓ Easy installation and maintenance
- ✓ Self-diagnose and remote diagnose function
- ✓ Communication via bluetooth and APP

TECHNICAL FEATURES

Medium	Dry and wet air
Pipe diameter	DN25 to DN400mm (Insertion type) DN 15 to DN300mm (Inline type)
Differential pressure range	6 to 6220 Pa
Accuracy	1% RD \pm 0.5% FS
Medium temperature	-25 to 120°C
Medium pressure	16 barG (Insertion type) 4 MPa (Inline type)
Power supply	DC 15 to 32V (AC85 to 264V power converter available)
Response time	1 second
Communication	RS485, Bluetooth (4-20mA optional)
Date displayed	Mass flow, Volume flow in normal condition, Total flow, Temperature of medium, Velocity
Protection	IP65

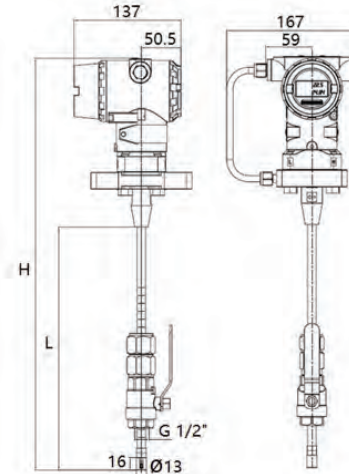


MODEL SELECTION

Model	PTF600	X	X	X	X	XXXX	
Process Connection	Insertion type with 255mm probe	I1					Standard
	Insertion type with 320mm probe	I2					Optional
	Insertion type with 395mm probe	I3					Optional
	Flanged insertion type up to 25 barG (362 psiG)	F1					Optional
	Flanged insertion type up to 40 barG (580 psiG)	F2					Optional
	Flanged DIN PN16 up to 16 barG (232 psiG) (DN15 to DN300)	D1					Optional
	Flanged DIN PN25 up to 25 barG (362 psiG) (DN15 to DN300)	D2					Optional
	Flanged DIN PN40 up to 40 barG (580 psiG) (DN15 to DN300)	D3					Optional
	Flanged ANSI CL150 up to 16 barG (232 psiG) (0.5 inch to 12 inch)	C1					Optional
	Flanged ANSI CL300 up to 40 barG (580 psiG) (0.5 inch to 12 inch)	C2					Optional
	JIS 10K up to 16 barG (232 psiG) (DN15 to DN300)	J1					Optional
	JIS 20K up to 40 barG (580 psiG) (DN15 ~ DN300)	J2					Optional
Transmitter	Integral		T				Standard
	Remote		R				Optional
Communicate	Pulse/frequency + RS485 + Bluetooth			1			Standard
	Pulse/frequency + 4 to 20mA + RS485 + Bluetooth			2			Optional
Power Supply	13.5 to 42VDC				1		Standard
	13.5 to 42VDC with 85 to 265VAC 50/60Hz power converter				2		Optional
Pipe Size	Please indicate pipe size in 4 digits, ie s DN50=0050, DN200=0200					XXXX	XXXX

DIMENSION/DRAWING

Probe	H	L	Pipe Size available
255 mm	460 mm	245 mm	DN150
320 mm	525 mm	310 mm	DN250
395 mm	600 mm	385 mm	DN400



I-SYSTEM MEASUREMENT
www.ismesb.com



DIFFERENTIAL PRESSURE FLOW METER
PTF600 PITOT TUBE FLOW METER

11-2021

I-SYSTEM

104003

I-SYSTEM

104/002

DIMENSION/DRAWING

Standard flow range for compressed air @ 50°C and different pressure, unit is Normal flow Nm ³ /min ref to 1.01325 barA, 0°C												
Pipe inner diameter			2 Bar G		3 Bar G		4 Bar G		5 Bar G		6 Bar G	
DN	mm	inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DN25	27.3	1"	0.13	4.28	0.15	4.79	0.16	5.24	0.18	5.66	0.19	6.05
DN32	36	1 1/4"	0.23	7.45	0.26	8.33	0.28	9.12	0.31	9.85	0.33	10.53
DN40	41.9	1 1/2"	0.31	10.09	0.35	11.28	0.38	12.35	0.41	13.34	0.44	14.26
DN50	53.1	2"	0.50	16.21	0.56	18.11	0.62	19.84	0.67	21.43	0.71	22.90
DN65	68.9	2 1/2"	0.85	27.29	0.95	30.50	1.04	33.40	1.12	36.07	1.20	38.56
DN80	80.9	3"	1.17	37.62	1.31	42.05	1.43	46.05	1.54	49.73	1.65	53.16
DN100	110	4"	2.16	69.55	2.41	77.74	2.64	85.14	2.86	91.94	3.05	98.28
DN125	133.7	5"	3.19	102.75	3.5	114.84	3.91	125.78	4.22	135.83	4.51	145.19
DN150	159.3	6"	4.53	145.87	5.06	163.03	5.55	178.55	5.99	192.83	6.40	206.12
DN200	200	8"	7.14	229.93	7.98	256.98	8.74	281.45	9.44	303.95	10.09	324.90
DN250	250	10"	11.16	359.26	12.47	401.53	13.66	439.76	14.75	474.92	15.77	507.65
DN300	300	12"	16.07	517.33	17.96	578.21	19.67	633.25	21.24	683.89	22.70	731.02

Standard flow range for compressed air @ 50°C and different pressure, unit is Normal flow Nm ³ /min ref to 1.01325 barA, 0°C												
Pipe inner diameter			7 Bar G		8 Bar G		9 Bar G		10 Bar G		12 Bar G	
DN	mm	inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DN25	27.3	1"	0.20	6.42	0.21	6.77	0.22	7.10	0.23	7.41	0.25	8.01
DN32	36	1 1/4"	0.35	11.16	0.37	11.77	0.38	12.34	0.40	12.89	0.43	13.92
DN40	41.9	1 1/2"	0.47	15.12	0.50	15.94	0.52	16.72	0.54	17.46	0.59	18.86
DN50	53.1	2"	0.75	24.29	0.80	25.60	0.83	26.85	0.87	28.04	0.94	30.29
DN65	68.9	2 1/2"	1.27	40.89	1.34	43.10	1.40	45.20	1.47	47.21	1.58	50.99
DN80	80.9	3"	1.75	56.38	1.85	59.42	1.94	62.32	2.02	65.09	2.18	70.30
DN100	110	4"	3.24	104.23	3.41	109.86	3.58	115.22	3.74	120.34	4.04	129.97
DN125	133.7	5"	4.78	153.99	5.04	162.30	5.29	170.22	5.52	177.78	5.96	192.01
DN150	159.3	6"	6.79	218.60	7.16	230.41	7.51	241.64	7.84	252.37	8.47	272.57
DN200	200	8"	10.70	344.57	11.28	363.19	11.83	380.89	12.36	397.81	13.34	429.65
DN250	250	10"	16.72	538.40	17.62	567.48	18.48	595.14	19.31	621.57	20.85	671.32
DN300	300	12"	24.08	775.29	25.38	817.17	26.62	857.00	27.80	895.06	30.02	966.70

