

Working principle

PTF600 Pitot tube flow meter is COMATE's heavy duty designed flow meter for wet and dry air. It has an wide turn down DP transmitter which ensures it a 33:1 wide measurement range and better stability. It has an unique water-proof design which can solve the problem that caused by condensing water in capillary.

PTF600 Pitot tube flow meter also has integral temperature and pressure compensation, so it can measure standard flow, temperature and pressure also.

Special features

- Cellphone APP for reading and setting
- Self-diagnose and remote diagnose function to provide with best support
- For both dry and wet air measurement, possible for measuring compressed air at output of compressor
- Multi-variable flow meter, measures flow rate, temperature, pressure, FAD measurement available
- Super wide turn down of 33:1, best in market
- Fast response time
- No mechanical wear part
- Insertion mounting, available for hot tapping.
- Special water proof design, no worry about condensing water blocking the capillary
- Heavy duty design, more durable in tough measurement environment

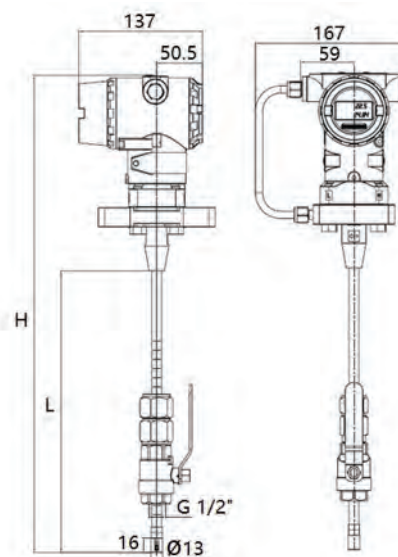


Standard flow range for compressed air @ 50 °C and different pressure, unit is Normal flow Nm ³ /min ref to 1.01325 barA, 0 °C												
Pipe innder diameter			2 Bar G		3 Bar G		4 Bar G		5 Bar G		6 Bar G	
DN	mm	inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DN25	27.3	1"	0.13	4.28	0.15	4.79	0.16	5.24	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	3.57	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 innder 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

Specification

Media Compatibility	Dry and wet air
Pipe diameter	Insertion type: DN25~400mm Inline type: DN15~300mm
Different pressure range	6~6220 Pa, please reference to next subject on how to calculate flow rate range
Accuracy	1% RD+ $\pm 0.5\%$ FS
Temperature of medium	- 25 ~ +120°C
Pressure of medium	Insertion type :16 barG Inline type : 4 MPa
Power supply	DC 15~32V (AC85~264V power converter available)
Response time	1 second
Output / Communication	RS485, Bluetooth (4~20mA optional)
Date displayed	Mass flow, Volume flow in normal condition, Total flow, Temperature of medium. Velocity
Ingress protection grade	IP65 (GB China)



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

Operation on cellphone

- Reading
- Setting
- 0 point reset
- Remote diagnose



Mode number

The standard model number is usually PTF600-I1-T-1-1-XXXX,
Please reference to the table below for what the model codes stand for.

Mode codes

1	General model	PTF600		Standard
		I1	Insertion type with 255mm probe	Standard
2	Process connection	I2	Insertion type with 320mm probe	Option
		I3	Insertion type with 395mm probe	Option
		F1	Flanged insertion type up to 25 barG (362 psiG)	Option
		F2	Flanged insertion type up to 40 barG (580 psiG)	Option
		D1	Flanged DIN PN16 up to 16 barG (232 psiG) (DN15 ~ DN300)	Option
		D2	Flanged DIN PN25 up to 25 barG (362 psiG) (DN15 ~ DN300)	Option
		D3	Flanged DIN PN40 up to 40 barG (580 psiG) (DN15 ~ DN300)	Option
		C1	Flanged ANSI CL150 up to 16 barG (232 psiG) (0.5 inch ~ 12 inch)	Option
		C2	Flanged ANSI CL300 up to 40 barG (580 psiG) (0.5 inch ~ 12 inch)	Option
		J1	JIS 10K up to 16 barG (232 psiG) (DN15 ~ DN300)	Option
		J2	JIS 20K up to 40 barG (580 psiG) (DN15 ~ DN300)	Option
3	Transmitter	T	Integral	Standard
		R	Remote	Option
4	Transmitter	1	pulse/frequency + RS485 + Bluetooth	Standard
		2	pulse/frequency + 4~20mA + RS485 + Bluetooth	Option
5	Power supply	1	13.5 ~ 42VDC	Standard
		2	13.5 ~ 42VDC with 85~265VAC 50/60Hz power converter	Option
6	Pipe size	xxxx	please use 4 digit pipe size, such as DN50=0050, DN300=0300	xxxx