

Working principle

PTF500 Pitot tube flow meter is COMATE's latest technology base on different pressure technology specially designed for compressed air applications. As it has 1/2" insertion connection probe and compact designed sensor, it can be used on pipes from DN25~DN300. 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.

PTF500 Pitot tube flow meter also has integral temperature and pressure compensation, so it can measure standard flow, temperature and pressure also.

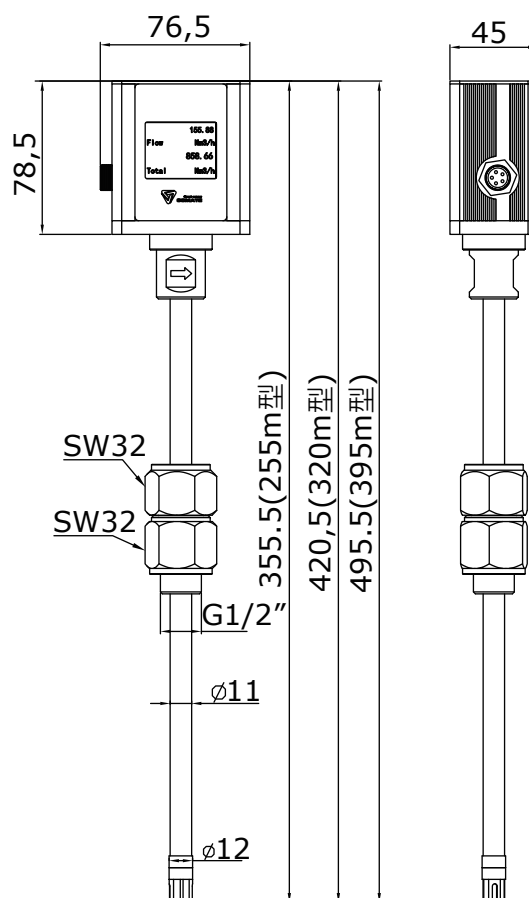
Features

- 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
- Fast response time
- Wide measurement range
- No mechanical wear part
- Insertion mounting, available for hot tapping



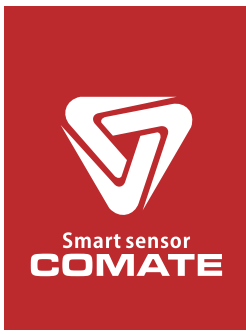
Specification

Model	PTF500
Medium	Air and none-corrosive gas
Pipe size range	1"~12" (DN25~DN300)
Ambient temperature	-40~60 °C
Ambient humidity	5~100%
Process connection	1/2 G insertion with ball valve
Pressure rating	10 barG
Fluid temperature	-40~ 150 °C
Wet part material	304ss/316ss
Parameter measured	Flow rate, temperature , pressure
Power	13.5~32V DC,150mA max
Communication	RS485@Modbus-RTU, blue tooth
Flow Accuracy	±1.5%RD±0.3%FS
Flow Repeatability	±0.5%RD
Response time	1 second



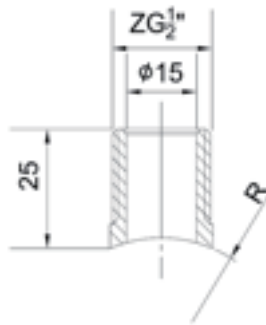
Standard flow range for compressed air @ 50 °C and different pressure, unit is Normal flow Nm³/min ref to 1.01325 barA, 0 °C

Pipe inner diameter			0 Bar G		4 Bar G		6 BarG		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	10"	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



COMATE INTELLIGENT SENSOR PTF500 Pitot Tube flow meter datasheet

Socket tube (Material according to pipeline)



Setting in COMATE APP

Instead of traditional keyboard, COMATE PTF500 implement a cellphone setting system.

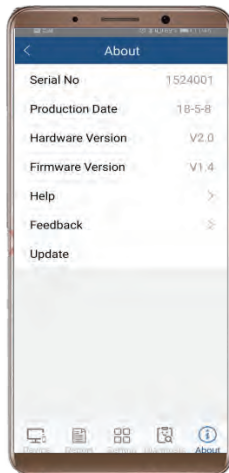
All PTF500 have Bluetooth communication. Users can install COMATE APP on their cellphone or tablet and use the APP to connect with a PTF500 flow meter to read or set the flow meter.

This APP also support a remote diagnose function. Whenever there is anything wrong with the flow meter, customer can ask for a remote diagnose support. When this function is working, COMATE engineer back in office can remotely check the setting of the meter, and the signal of sensor, to provide users with most accurate trouble shooting advise.

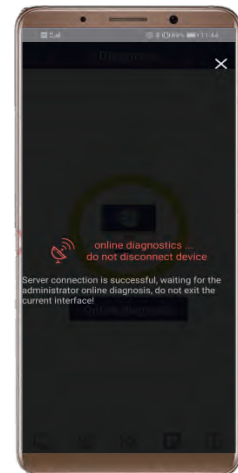
COMATE APP has made the using of the product simple and efficient .



Device list



Setting interface



Remote diagnose interface

Model Selection

Process Connection	D	Standard	Insertion (G 1/2) ,anti-ejection design with ball valve
Probe Length	1	Option	255mm, 11mm dia (1"~4" or DN25~DN100)
	2	Option	320mm, 11mm dia (1"~8" or DN25~DN200)
	3	Standard	395mm, 11mm dia (1"~12" or DN25~DN300)
Probe Material	1	Standard	304 SS
Socket material	1	Standard	Carbon steel
	2	Option	304 SS
	3	Option	316 SS
Transmitter	T	Standard	Integral
Pressure Rating	1	Standard	10 Bar G
	2	Option	150 KpaA
Display and output	1	Option	No display, RS485, Bluetooth
	2	Option	No display, 4wire 4~20mA, RS485, Bluetooth
	3	Standard	Local display, RS485, Bluetooth
	4	Option	Local display, 4wire 4~20mA, RS485, Bluetooth
Power supply	1	Standard	13.5~42VDC
	N	N	13.5~42VDC with 24VDC to AC power converter
Pipe size	XXX	XXX	please use 3 digit pipe size, such as DN50=050, DN200=200

Remark:

1. Hot-tap hole opener are as accessories, please remark if you need any of them
2. Please indicate flow rate along with the model number selected
3. If anything beyond this chart, please check with us to see the availability
4. The model selected in 1st line is the standard configuration with no accessories

Contact us

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