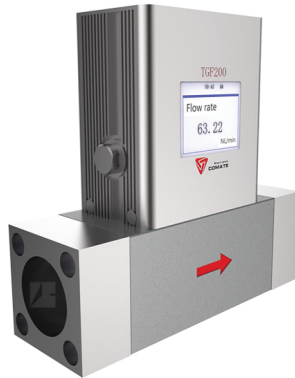


THERMAL FLOW METER

TGF200 SERIES THERMAL MASS MICRO FLOWMETER

Flow Measurement
& Monitoring



DESCRIPTION

TGF200 series micro flowmeter is designed to measure dry air, nitrogen and other non-corrosive gas based on the thermal mass flow measurement technology. It is designed to measure the mass and standard flow in small pipelines (1/4" to 1") in general industry and laboratory. Beside mass/standard flow, TGF200 can also measure temperature and pressure.

Bluetooth communication via APP allows plant operators to monitor, diagnose and configure the flowmeter from their mobile device during maintenance.

FEATURES

- ✓ Direct measurement of mass flow and standard flow
- ✓ Small pipeline measurement 1/4" to 1", G / MNPT thread connection (optional)
- ✓ 1.5% reading + 0.3% full scale accuracy in 100:1 measurement range
- ✓ Cost effective and economical model
- ✓ Communication via bluetooth and APP

TECHNICAL FEATURES

Medium	Air, Nitrogen and other non-corrosive fluid
Pipe diameter	8mm to 25mm (1/4" to 1")
Flow velocity range	0.3 to 3Nm/s; 0.6 to 60Nm/s; 0.9 to 90Nm/s
Accuracy	1.5% of reading + 0.3% of full scale
Repeatability	0.3% of reading
Storage temperature	-20 to 50°C
Transportation temperature	-30 to 60°C
Medium temperature	-20to 100°C
Medium pressure	1.6MPa
Display	6 digit dual-line with LED display
Power supply	10 to 35 VDC/200mA
Response time	160 millisecond
Output	RS485, Bluetooth
Housing material	Aluminium alloy
Wetted part material	Aluminium alloy (304SS optional)
Ingress protection grade	IP54

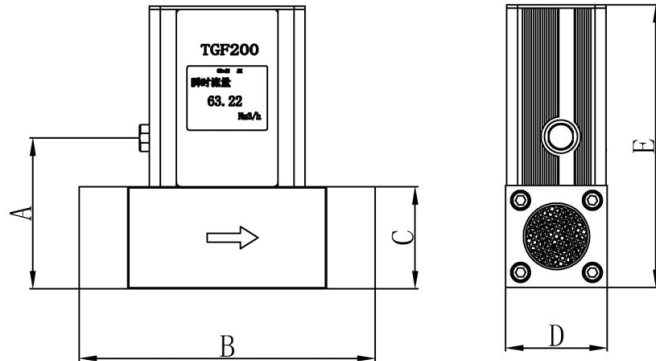


MODEL SELECTION

Model	Basic model	TGF200	X	X	X	X	X	X	X
Flow Range	0.3 to 30Nm/s	1							Optional
	0.6 to 60Nm/s	2							Standard
	0.9 to 90Nm/s	3							Optional
Wetted Part Material	Aluminium alloy		A						Standard
	304SS		4						Optional
Parameter	Flow, total flow, velocity			F					Standard
Output	Frequency, RS485, bluetooth				H				Standard
Process Connection	G female thread					G			Standard
	NPT female thread					N			Optional
	BSP female thread					B			Optional
Pipe Size	DN8 (1/4")							08	
	DN10 (3/8")							10	
	DN15 (1/2")							15	
	DN20 (3/4")							20	
	DN25 (1")							25	

DIMENSION/DRAWING

Pipe size	A	B	C	D	E
8 mm	60	144	38	38	119.5
10 mm	60	144	38	38	119.5
15 mm	60	179	38	38	119.5
20 mm	68	230	46	46	127.5
25 mm	68	230	46	46	127.5



I-SYSTEM MEASUREMENT
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CODES AND REFERENCES

Pipe size (mm)	Pipe size (inch)	Standard (0.3-30 Nm/s)		Standard (0.6-60 Nm/s)	
		Min (NL/min)	Max (NL/min)	Min (NL/min)	Max (NL/min)
8 mm	1/4"	0.90	90.00	1.80	180.00
10 mm	3/8"	1.40	140.00	2.80	280.00
15 mm	1/2"	3.20	320.00	6.40	640.00
20 mm	3/4"	5.60	560.00	11.30	1130.00
25 mm	1"	8.80	880.00	17.70	1170.00

Pipe size (mm)	Pipe size (inch)	Option 1 (0.9-90 Nm/s)		Option 2 (1.2-120 Nm/s)	
		Min (NL/min)	Max (NL/min)	Min (NL/min)	Max (NL/min)
8 mm	1/4"	2.70	270.00	3.60	360.00
10 mm	3/8"	4.20	420.00	5.60	560.00
15 mm	1/2"	9.50	950.00	12.70	1270.00
20 mm	3/4"	16.90	1690.00	22.60	2260.00
25 mm	1"	26.50	2650.00	35.30	3530.00

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