

Thermal Mass Flowmeter
Model: IFLO-STG Series

FEATURES

- ❑ Oxygen, nitrogen, hydrogen, chlorine and multi-component gas measurement.
- ❑ Blast furnace gas, coke oven gas measurement.
- ❑ Natural gas, liquefied gas, flare gas, and other gas flow measurement. Primary
- ❑ and secondary air flow measurement of power plant blast furnace. Flow
- ❑ measurement of underground mine ventilation or exhaust system.
- ❑ Flue gas measurement.
- ❑ Compressed air measurement.



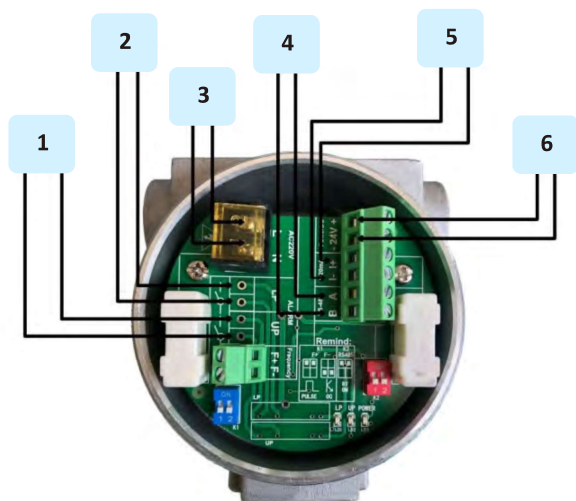
STANDARD SPECIFICATION

Structure Type	Insertion Type	Flange Type
Measuring Medium	Common steady-state gases (acetylene, boron trichloride, and other unstable media are not measurable)	
Diameter	DN65~DN4000	DN10~DN300
Velocity	1~100Nm/s	
Accuracy	Insertion Type: $\pm 2.5\%$ Flange Type: $\pm 1.5\%$	
Operating Temperature	Sensor: -40 ~+200°C	Converter: -20 C~+45°C
Pressure	Medium pressure $\leq 1.6\text{MPa}$	
Power Supply	(DC 24V or AC 220V) $\leq 18\text{W}$	
Response Speed	1s	
Output	4-20mA (optically isolated, maximum load 500 ohms), RS-485 (optically isolated. requires separate customization)	
Alarm	1-2 normally open contacts, 24V/0.5A	
Supply Type	Integrated Structure	
Pipe Material	Carbon steel, stainless steel, plastic, etc.	
Display	Four-line Chinese character LCD display	
Display Content	Mass flow rate, standard volume flow rate, cumulative flow rate, standard flow velocity, etc.	
Protection	IP65	
Sensor Material	SS304	
Probe Material	SS316	
Explosion Proof	ExdIICT6 Gb; ExtbIIIC T80 °C Db	

➤ FLOW RANGE

Diameter (mm)	Air (Nm³/h)	Nitrogen (N ²) (Nm³/h)	Oxygen (O ²) (Nm³/h)	Hydrogen (H ²) (Nm³/h)
10	30	30	15	4
15	65	65	32	10
20	110	110	55	17
25	175	175	89	28
32	290	290	144	45
40	450	450	226	70
50	700	700	352	110
65	1200	1200	600	185
80	1800	1800	900	280
100	2800	2800	1420	470
125	4400	4400	2210	700
150	6300	6300	3200	940
200	10000	10000	5650	1880
250	17000	17000	8830	2820
300	25000	25000	12720	4060
400	45000	45000	22608	7200
500	70000	70000	35325	11280
600	100000	100000	50638	16300
700	135000	135000	69240	22100
800	180000	180000	90432	29000
900	220000	220000	114500	77807
1000	280000	280000	141300	81120
1200	400000	400000	203480	91972
1500	600000	600000	318000	101520
2000	700000	700000	565200	180480

WIRING DIAGRAM



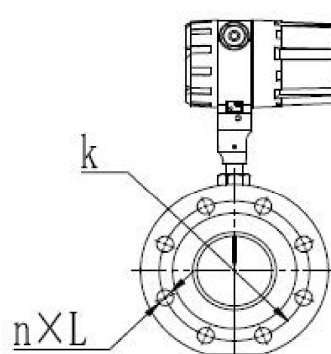
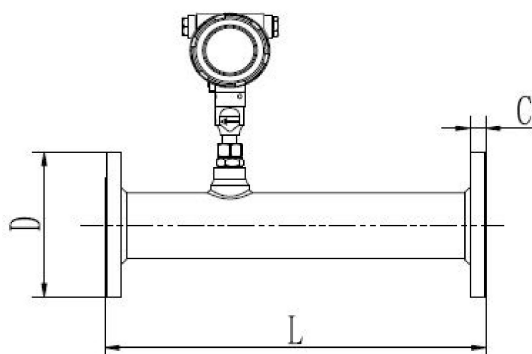
No.	Description
1	Alarm Upper Limit
2	Alarm Lower Limit
3	220V
4	RS485
5	4-20mA
6	DC 24V

DIMENSIONS

Flange Type

Unit: mm

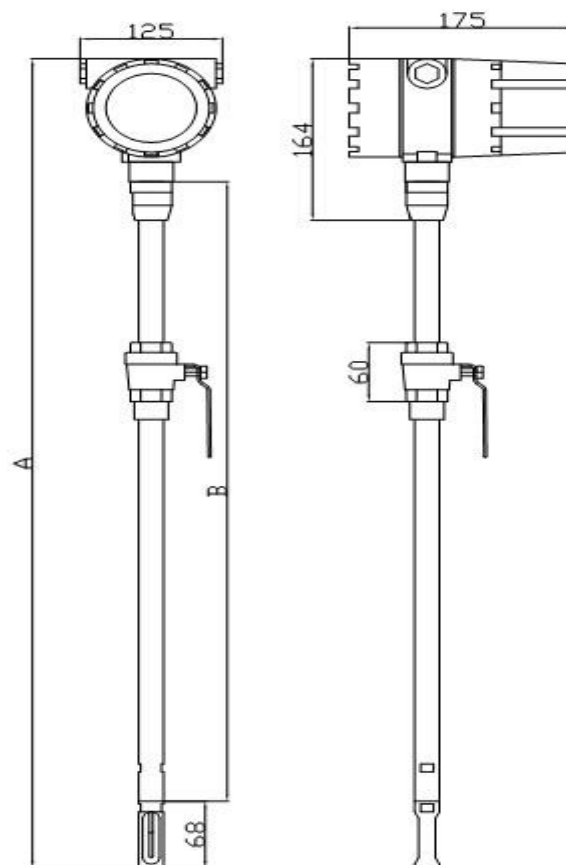
Nominal Diameter	Flange Outside Diameter	Center Hole Diameter	Bolt Hole	Thread Specification	Sealing Surface		Flange Thickness	Instrument Mounting Length
DN	D	K	n*L		d	f	C	L
15	95	65	4*14	M12	45	2	12	250
20	105	75	4*14	M12	55	2	14	250
25	115	85	4*14	M12	65	2	14	250
32	140	100	4*18	M16	78	2	16	250
40	150	110	4*18	M16	85	3	18	250
50	165	125	4*18	M16	100	3	18	280
65	185	145	4*18	M16	120	3	20	280
80	200	160	8*18	M16	135	3	20	280
100	220	180	8*18	M16	155	3	22	280



Insertion Type

Unit: mm

DN	A	B
DN65-DN350	560	340
DN350 -DN500	640	425
DN500-DN1000	820	600



1. Flanges adhere to the GB/T 9119-2000 standard and are produced accordingly.
2. For DN15 to DN80, threaded connections are possible with supplier agreement.
3. The table lists data up to 1.6 MPa; customization above this rating requires supplier consultation.
4. For DN100+ installations, dimensions must be agreed upon with the supplier.

MODEL SELECTION GUIDE

Model	Suffix Code							Description
IFLO-STG	①	②	③	④	⑤	⑥	⑦	Thermal Mass Flow Meter
Structure	S							Compact Type
	L							Remote Type
Diameter		XXX						010:DN10 100:DN100 4000:DN4000
Body Material			S4					SS304
			S6					SS316
Temperature				T1				-40...+100°C
				T2				-40...+150°C
				T3				-40...+200°C
Communication					1			RS485
					2			HART
Power Supply						1		24V DC
						2		220V AC
Connection							F	Flange Type: DIN; JIS; ANSI
							T	Thread Type
							I	Insertion Type (DN25~DN4000)
Explosion Proof							CT	ExdIICT6 Gb
							EW	ExtbIIIC T80°C Db
							NA	None

Thermal Mass Flow Meter Selection Guide

IFLO-STG-50-S4-T1-1-1-F-CT

IFLO-STG: Thermal Mass Flow Meter

50: DN50

S4: SS304 Material

T1: -40...+100°C

1: RS485

1: 24V DC

F: Flange Type: DIN; JIS; ANSI

CT: ExdIICT6 Gb