

Overview

MaxiFlo™ TURBINE Flowmeter series MT measures liquid, gas and steam with low viscosities with high accuracy.

- Low Cost
- Outstanding Accuracies of 0.2%, 0.5% and 1%
- Bi-directional Flow capacity (optional)
- Various Signal Output options of Pulse and 4-20mA
- Wide application for liquid, gas and steam in the fields of petroleum, chemical industry, metallurgy, etc. for measuring and control

Specifications

Accuracy

Liquid: ±0.2%, ±0.5%, 1%
 Gas: ±0.5%, ±1%

Medium Temperature

Liquid: -20℃ ~ +120℃ (Integral Indicator)
 -40℃ ~ +160℃ (Remote Indicator)
 Gas: -20℃ ~ +60℃

Ambient Temperature

Liquid: -20℃ ~ +55℃
 Gas: -20℃ ~ +50℃

Materials

Body & Flange - SUS 304
 Rotor – SUS 410
 Rotor Shaft - Tungsten Carbide
 Indicator Case - Aluminum

Max. Operating Pressure ≤2.5 Mpa

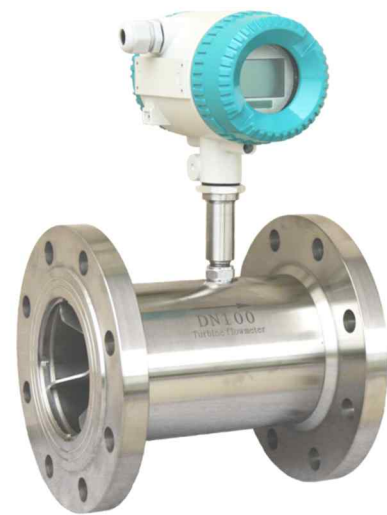
Power Supply 5~ 24VDC, Battery

Output: 4-20mA, Pulse

Explosion-proof Exia IIC T6

MAXIFLO

**Turbine Flow Meter
 (Series MTL & MTG)**



Flanged In-line sensor with Indicator



Threaded In-line sensor



Insertion sensor

Specifications Table for Liquid Type

DN (mm)	Flow Range (m³/h)		Connection & Design Pressure (barG)		Pressure Loss (barG)	
	Standard	Extended	Standard	Optional		
4A	0.04 ~ 0.25	0.04 ~ 0.4	Thread, 63	Flange, 25	1.2	
6A	0.1 ~ 0.6	0.06 ~ 0.6			0.8	
10A	0.2 ~ 1.2	0.15 ~ 1.5			0.5	
15A	0.6 ~ 6	0.4 ~ 8			0.35	
20A	0.8 ~ 8	0.45 ~ 9			Flange, 25	0.25
25A	1 ~ 10	0.5 ~ 10				
32A	1.5 ~ 15	0.8 ~ 15				
40A	2 ~ 20	1 ~ 20				
50A	4 ~ 40	2 ~ 40				
65A	7 ~ 70	4 ~ 70				
80A	10 ~ 100	5 ~ 100	Thread, 63			
100A	20 ~ 200	10 ~ 200	Flange, 16			
125A	25 ~ 250	13 ~ 250				
150A	30 ~ 300	15 ~ 300				
200A	80 ~ 800	40 ~ 800				

Specifications Table for Gas Type

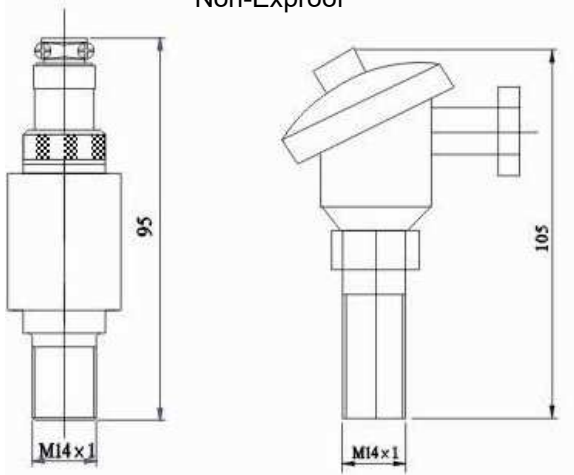
DN (mm)	Normal Flow Range (Nm³/h)		Accuracy	Medium Temp. (°C)	Ambient Temp. (°C)	Max. Pressure (MPa)	Pressure Loss (MPa)		
	Min.	Max.							
15A	1.5	7.5	2.5%	-20°C ~ +60°C	-20°C ~ +50°C	6.3	0.001		
20A	2.5	25							
25A	6	42							
40A	8.4	84							
50A	16.8	168	1%			1		1.6	2.5
80A	34	340							
100A	51	510							
150A	98	980							
200A	170	1700							
250A	230	2300							
300A	400	4000							

Specifications Table for Insertion Type

Model	Velocity Range (m/s)		Medium Temp. (°C)	Ambient Temp. (°C)	Max. Pressure (MPa)	Pipe Size (mm)
	Liquid (Accuracy 1%)	Gas (Accuracy 2.5%)				
IS800	0.3 ~ 3.5	5 ~ 50	-20°C ~ +120°C	-25°C ~ +55°C	1.6	50 ~ 800
IS2000	0.3 ~ 3.5	5 ~ 50			1.0	50 ~ 2000

Dimensions of Converters (Flow Indicators)

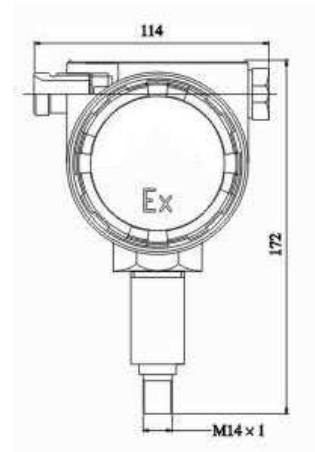
Pulse Transmitter-No Display
Non-Exproof



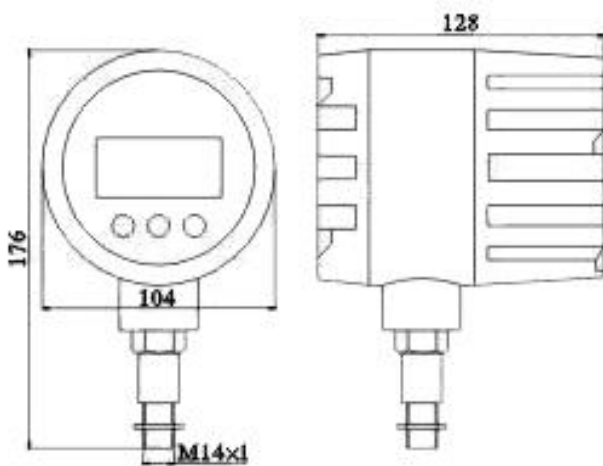
Cables connected by soldering

Cables connected thru terminals

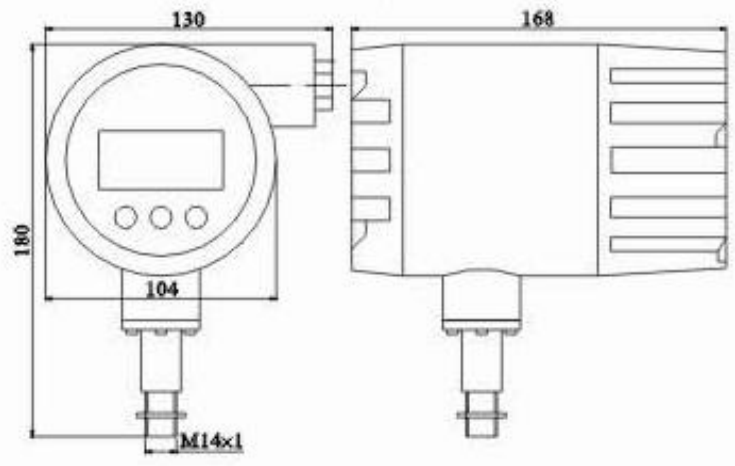
4-20mA & Pulse Transmitter-No Display
Ex-Proof



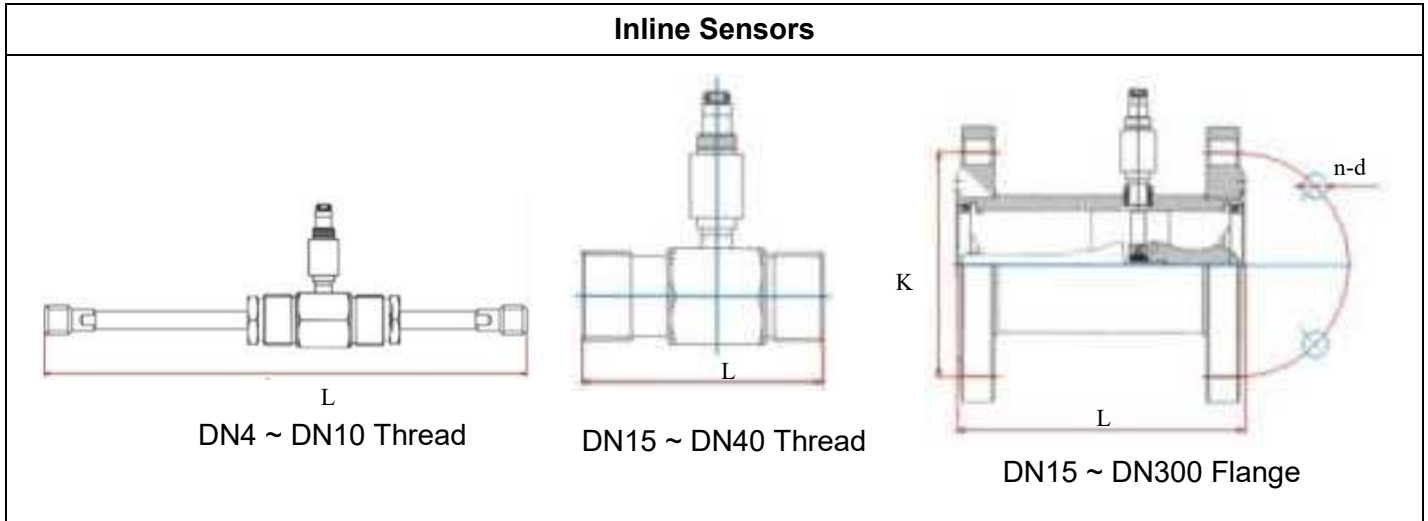
Rate & Total Display
No Signal Output – Battery Powered



Rate & Total Display
Pulse & 4-20mA Output – 24VDC Powered

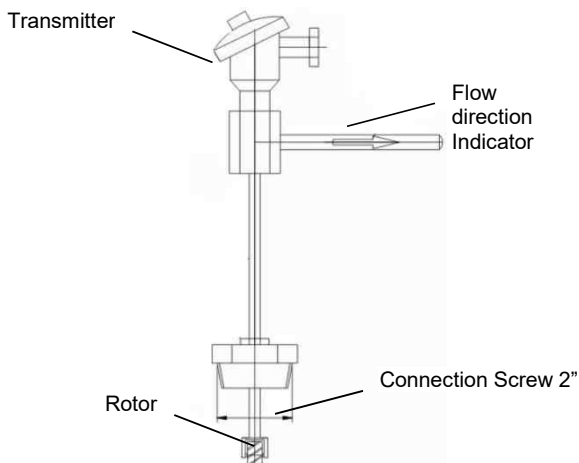


Dimensions of Sensors

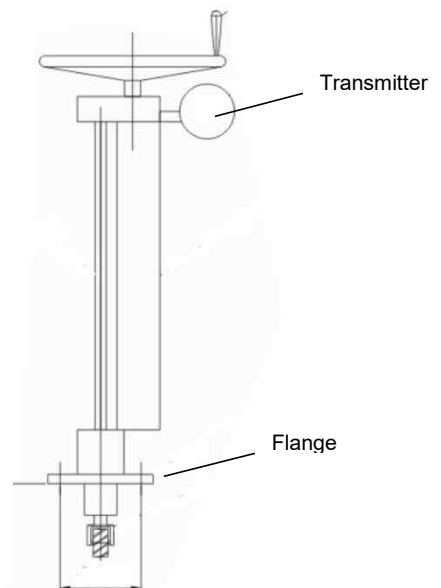


DN (mm)	Thread Connection				Flange Connection			
	Female		Male		Length	K (mm)	d (mm)	n (no. of holes)
	Size	Length	Size	Length				
4	X		1/2"	225	X			
6			1/2"	225				
10			1/2"	345				
15	1/2"	110	1"	75	75	Φ65	Φ14	4
20	3/4"	133	1"	85	85	Φ75	Φ14	4
25	1"	150	1-1/4"	100	100	Φ85	Φ14	4
32	1-1/4"	172	2"	120	120	Φ100	Φ14	4
40	1-1/2"	185	2"	140	140	Φ110	Φ18	4
50	2"	200	2-1/2"	150	150	Φ125	Φ18	4
65	X				175	Φ145	Φ18	4
80					200	Φ160	Φ18	8
100					220	Φ180	Φ18	8
125					250	Φ210	Φ18	8
150					300	Φ240	Φ22	8
200					360	Φ295	Φ22	12
250					400	Φ355	Φ26	12
300					450	Φ410	Φ26	12

Insertion Sensors (DN 50 ~ 800mm)



Insertion Sensors (DN 50 ~ 2000mm)



Model Selection Guide

MT#-###-##-#-##-##-###/Options		Code
Medium	Liquid	MTL
	Gas	MTG
DN (mm)	DN 4 ~ 200mm	###
Converter/Indicator	No Indicator - Pulse Output Only	T1
	No Indicator - 4-20mA Output Only	T2
	Flow Rate & Total Indicator - No Output	T3
	Flow Rate & Total Indicator - Pulse/4-20mA/RS-485 Output <i>** 4-20mA + Pulse or RS-485 + Pulse</i>	T4
	Flow Rate & Total Indicator - Pulse, 4-20mA, RS-485 Output	T5
Converter Type (for T3 and T4 only)	Integral Type	I
	Remote Type	R
Sensor	Inline Sensor	G
	Insertion Sensor	I
Power	24 VDC	P2
	Battery (Lithium Ion - 5 Years)	P3
Connection	JIS Flange	F1
	ANSI Flange	F2
	DIN Flange	F3
	Screw (NPT, PT, etc.)	F4
	Others	FX
Option	RS-485 (MODBUS-RTU) in place of 4-20mA Output	RS
	Output 4-20mA with HART in place of RS-485 (MODBUS-RTU)	HT
	Explosion-Proof Enclosure (Exia IIC T6)	EX
	Temperature and Pressure Compensation for Gas	TP

Example: **MT-80-T3-G-P3-F2**: Turbine flowmeter with flanged inline sensor with battery-powered indicator with no output.

Other options may be available. So, please consult with us.

We are here for you

For further information, visit us at

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