

Turbine Flow Sensor & Meter

MK-TFM-S.S.-size



Technical Data Sheet

Material of construction:

Enclosure : S.S-304/S.S-316

Rotor : S.S-304

Shaft : Hard Stainless Steel-316 with carbon bush

Accuracy (standard installation position) : +/- 0.5 or 1% FSD

Repeatability : 0.1%

Maximum working pressure : 6 MPa

Fluid & Ambient temperature: -20 to 120 Deg. C

Connection: Thread (M/F) or flange



1) **Pulse output sensor :**

Power voltage: 12 V DC

Output signal: NPN open connector

Output:

high electric level : High than 8 VDC(input voltage 12 VDC)

low electric level : lower than 0.8 VDC(input voltage 12 VDC)



2) **Battery operated meter :**

Power voltage: 3.3 V10AH lithium batteries can be used more than 5 years in a row.

display mode:

Double row Liquid Crystal Display (LCD), as follows:

L XXX. X four instantaneous flow (m³ / h) or L/h

XX. XXXXXX eight cumulative flow (m³) or L

Cumulative flow: automatically expand the display precision, the cumulative flow values can be reset.

Power-fail protection: instrument coefficient, the Total flow values ten years is not lost when power supply drop.

3) **Display with 4 to 20 mA Output**

Power voltage: 24 V DC

Output signal: 4 TO 20 mA

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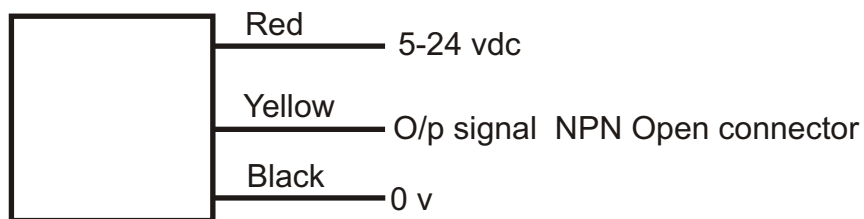
Technical Data Sheet

Turbine flow sensor model no wise Technical data: ^

<u>Model no</u>	<u>Line size</u>	<u>Range</u>
MK-TFM-004	04 mm	40~400 L/H
MK-TFM-012	12 mm	600~6000 L/H
MK-TFM-025	25 mm	1000~10000 L/H
MK-TFM-040	40 mm	2000~20000 L/H
MK-TFM-050	50 mm	4000~40000 L/H
MK-TFM-080	80 mm	10000~100000 L/H
MK-TFM-100	100 mm	20000~200000 L/H
MK-TFM-150	150 mm	30000~300000 L/H
MK-TFM-150	150 mm	80000~800000 L/H



Electric connection



Calibration process

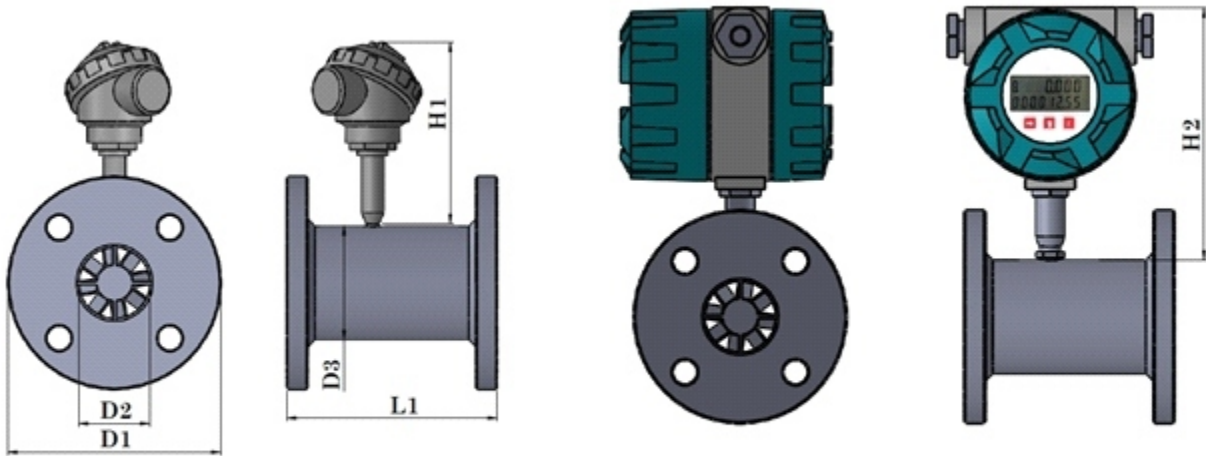
- *Calibrated each flow sensor with three pressure point : 0.5, 4 and 25 bar ,
- *all pressure calculate pulse/litter at : 25%, 50%, 75% and 100% flow rate
- *Calibrated with pure water at 25 Deg C

Application:

S.S. body and rotor : Flow measurements of Pharmaceutical drug, food oil, water and all application

Dimension drawing: Flange end

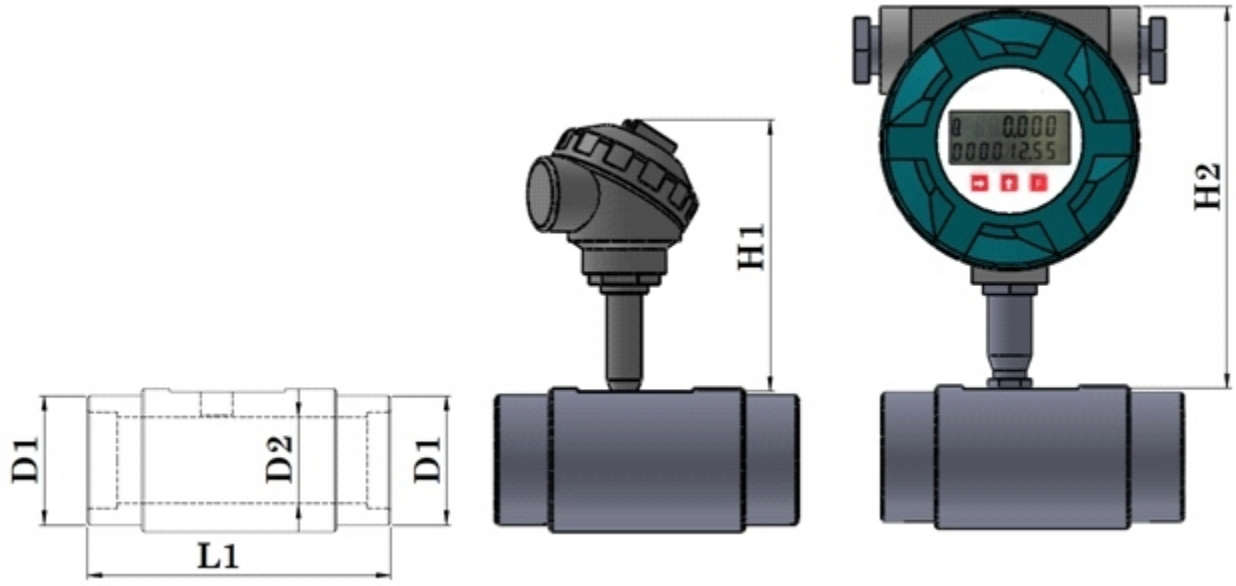
(all dimesnion in mm)



	L1	D 1	D 2	D 3	H 1	H 2
0 0 6	5 0	1 / 2 "(1 5 0 C L A S S)	6	2 6	1 6 5	1 9 0
0 0 9	6 0	1 / 2 "	1 0	2 6	1 6 5	1 9 0
0 1 2	7 5	1 / 2 "	1 4	2 8	1 6 5	1 9 0
0 2 0	9 1	3 / 4 "	2 0	3 8	1 6 5	1 9 0
0 2 5	1 0 6	1 "	2 5	4 6	1 6 5	1 9 0
0 3 2	1 4 0	1 1 / 4 "	3 2	6 0	1 6 5	1 9 0
0 4 0	1 4 0	1 1 / 2 "	4 0	6 0	1 6 5	1 9 0
0 5 0	1 4 8	2 "	5 0	7 5	1 6 5	1 9 0
0 8 0	2 0 0	3 "	7 9	1 0 5	1 6 5	1 9 0
1 0 0	2 2 0	4 "	1 0 0	1 3 5	1 6 5	1 9 0
1 5 0	2 5 0	6 "	1 5 0	1 7 0	1 6 5	1 9 0
2 0 0	3 5 0	8 "	2 0 0	2 2 5	1 6 5	1 9 0

Dimension drawing: Thread end

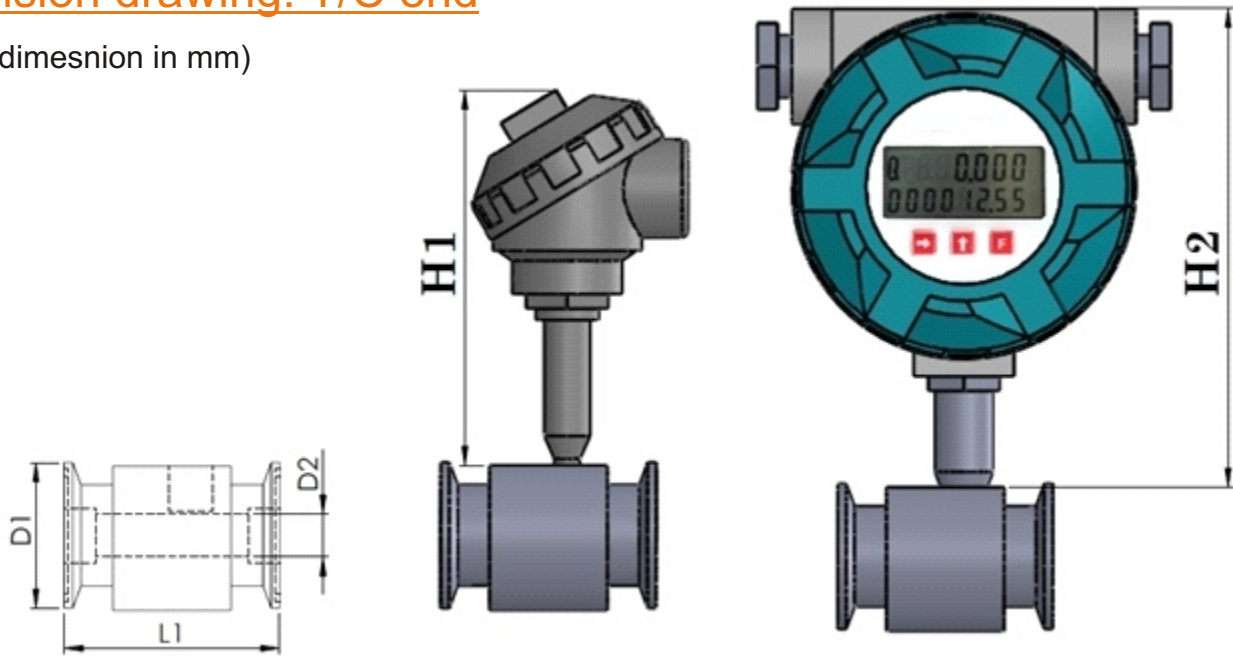
(all dimesnion in mm)



PART	L1	D 1	D 2	H 1	H 2
006	50	1/2 BSP	6	165	190
009	60	1/2 BSP	10	165	190
012	75	1" BSP	14	165	190
020	91	1" BSP	20	165	190
025	106	1"1/4 BSP	25	165	190
032	140	1"1/2 BSP	32	165	190
040	140	2" BSP	40	165	190
050	148	2"1/2 BSP	50	165	190

Dimension drawing: T/C end

(all dimesnion in mm)



	L1	D 1	D 2	H 1	H 2
006	50	50.5	6	165	190
009	60	50.5	10	165	190
012	75	50.5	14	165	190
020	91	50.5	20	165	190
025	106	50.5	25	165	190
032	140	64	32	165	190
040	140	64	40	165	190
050	148	77.5	50	165	190
080	200	119	79	165	190
100	220	166.1	100	165	190
150	250	217.5	150	165	190
200	350	268.5	200	165	190