

CE Certified

BT-DTFS - size



Turbine Flow Sensor & Meter

Flow
Level
Pressure
Temperature
Measuring
&
Control



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FOR YOUR MEASURING

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Turbine Flow Sensor & Meter
BT-DTFS-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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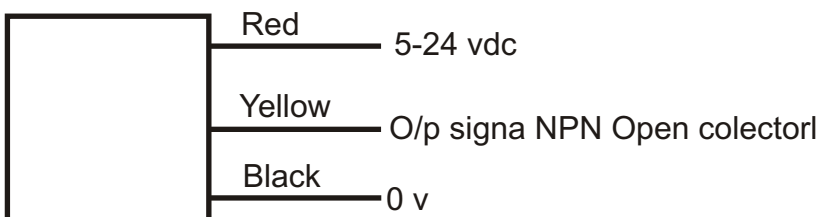
Technical Data Sheet

Turbine flow sensor model no wise Technical data: ^

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



Electric connection



Calibration process

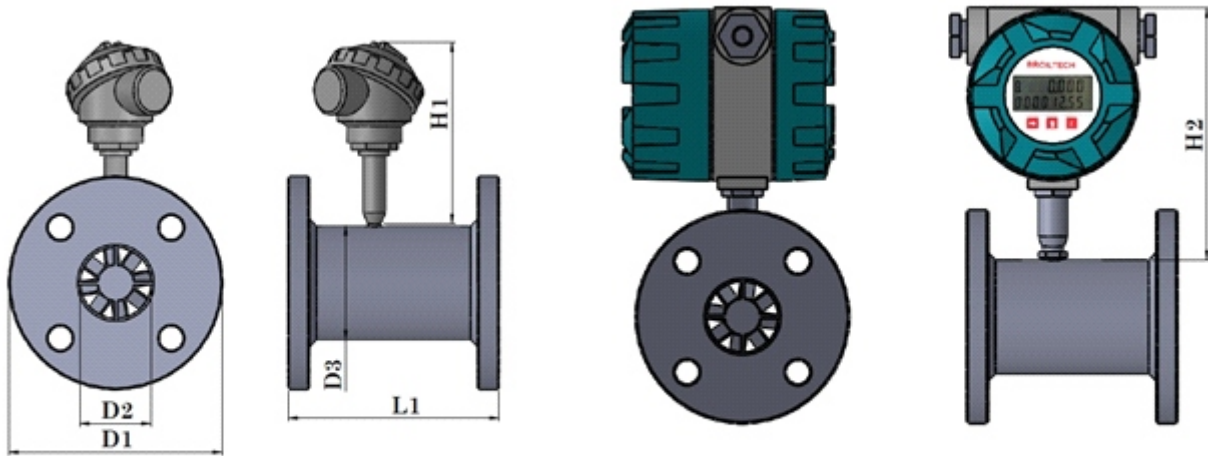
- *Calibrated each flow sensor with three pressure point : 0.5, 4 and 25 bar ,
- *all pressure calculate pulse/litter at : 25%, 50%, 75% and 100% flow rate
- *Calibrated with pure water at 25 Deg C

Application:

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

Dimension drawing: Flange end

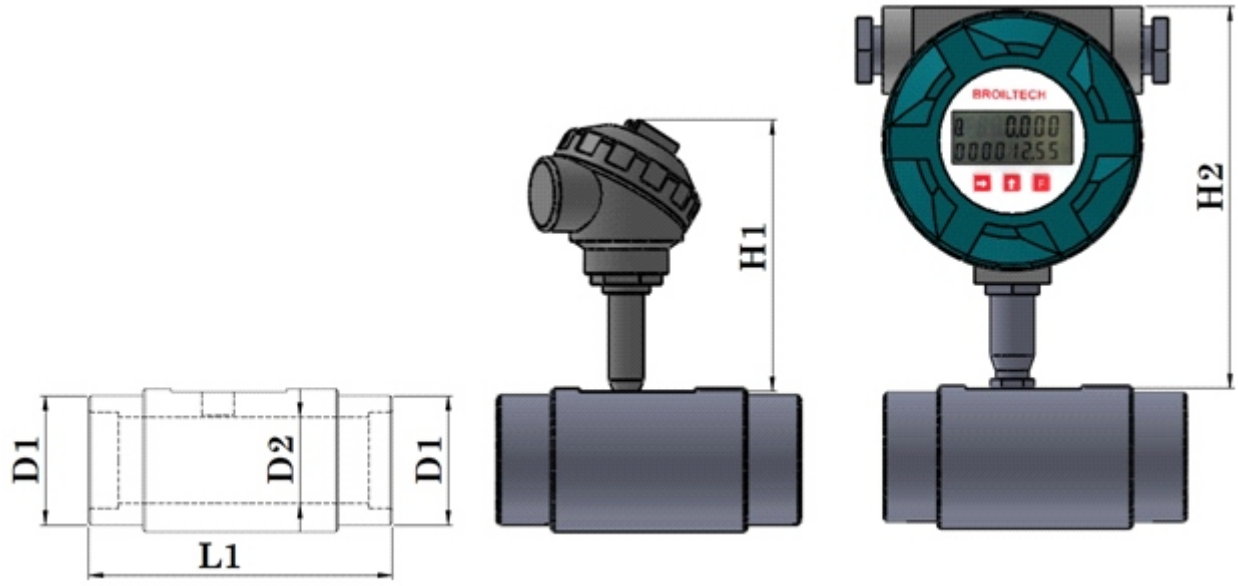
(all dimesnion in mm)



	L 1	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

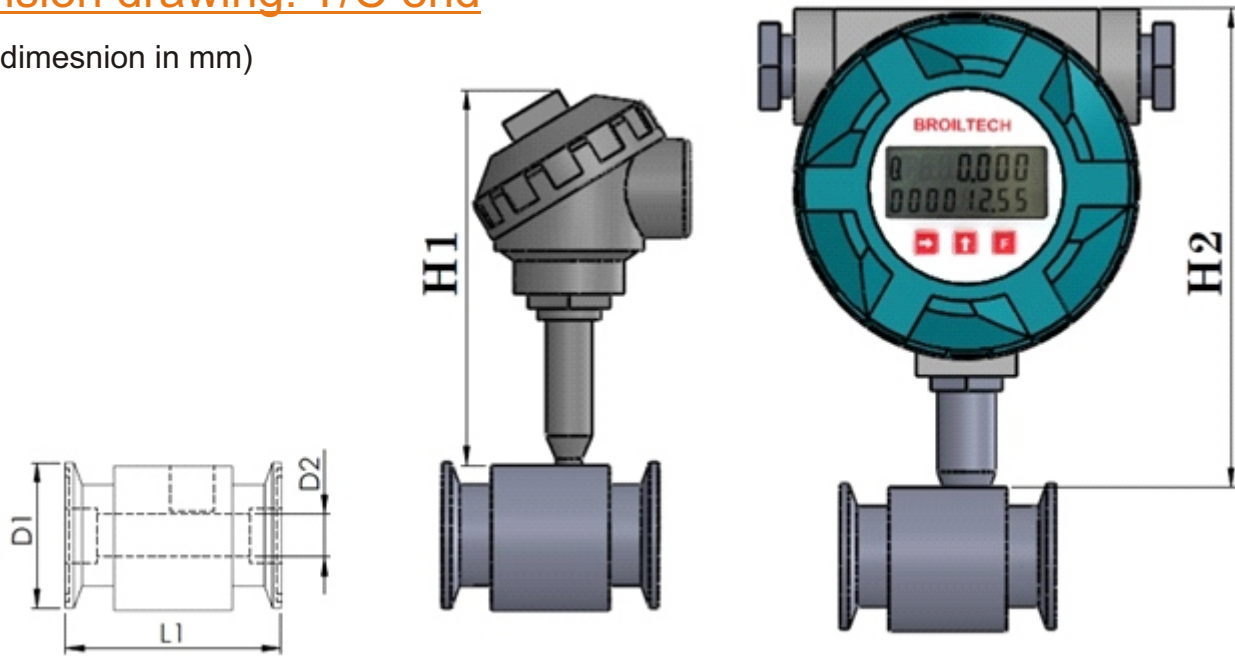
(all dimesnion in mm)



PART	L 1	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)



	L 1	D 1	D 2	H 1	H 2
0 0 6	5 0	5 0 . 5	6	1 6 5	1 9 0
0 0 9	6 0	5 0 . 5	1 0	1 6 5	1 9 0
0 1 2	7 5	5 0 . 5	1 4	1 6 5	1 9 0
0 2 0	9 1	5 0 . 5	2 0	1 6 5	1 9 0
0 2 5	1 0 6	5 0 . 5	2 5	1 6 5	1 9 0
0 3 2	1 4 0	6 4	3 2	1 6 5	1 9 0
0 4 0	1 4 0	6 4	4 0	1 6 5	1 9 0
0 5 0	1 4 8	7 7 . 5	5 0	1 6 5	1 9 0
0 8 0	2 0 0	1 1 9	7 9	1 6 5	1 9 0
1 0 0	2 2 0	1 6 6 . 1	1 0 0	1 6 5	1 9 0
1 5 0	2 5 0	2 1 7 . 5	1 5 0	1 6 5	1 9 0
2 0 0	3 5 0	2 6 8 . 5	2 0 0	1 6 5	1 9 0