



USER MANUAL

ONE-STOP SOLUTION

ONE-STOP SERVICE

Liquid Turbine Flow Meter Model: TF



SPECIFICATIONS

Performance

Repeatability:	±0.2%
Accuracy:	Standard: ±1% of reading; Optional: ±0.5% of reading

Wetted Components

Housing:	Standard - 304 Stainless Steel Optional - 316 Stainless Steel
Bearings and Shaft:	Tungsten Carbide
Rotor:	Standard - 2Cr13 Stainless Steel (Optional Alloy CD4Mcu)
Retaining Rings:	316 Stainless Steel

Output Signal: (Where applicable)

Sensor:	Pulse signal (Low Level: <0.8V; High Level: >8V)
Transmitter:	4 to 20mA DC current signal

Signal Transmission Distance: <1,000 m

Electrical Connections:

Basic Type:	Hirschmann Connector or three-core cable
Explosion Proof Type:	ISO M20x 1.5 Female

Explosion Proof Level:

Standard:	None
Optional:	ExdIICT6

Protection Level: IP65

OPERATION CONDITIONS

Ambient:

Temperature: -10°C to +55°C
 Pressure: 86 to 106 KPa
 Relative Humidity: 5% to 90%

Power Supply:

Sensor: +12V DC (Optional: +24V DC)
 Transmitter: +24V DC

Field Display Type B: Integral 3.2V Lithium Battery (Others available on request)
 Field Display Type C: +24V DC

Fluid Temperature and Pres:

Temperature: Pres: -20°C to +110°C Fluid pres should be limited according to rating.

Measurable Flow Rate Range and Pres Level: (See table 1)

Table 1 . Measurable Flow Range and Pres Rating

Nominal Diameter		Standard Flow Range (SFR)	Extended Flow Range (EFR)	Standard Pres Rating	Customized Pres Rating
(mm)	(in.)	(m ³ /h)	(m ³ /h)	(MPa)	(MPa) - Flange Fitting
4	0.15	0.04 to 0.25	0.04 to 0.4	Thread: 6.3	12, 16,25
6	0.25	0.1 to 0.6	0.06 to 0.6	Thread: 6.3	12, 16, 25
10	0.4	0.2 to 1.2	0.15 to 1.5	Thread: 6.3	12, 16,25
15	0.5	0.6 to 6	0.4 to 8	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
20	0.75	0.8 to 8	0.45 to 9	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
25	1	1 to 10	0.5 to 10	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16,25
32	1.25	1.5 to 15	0.8 to 15	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16,25
40	1.5	2 to 20	1 to 30	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
50	2	4 to 40	2 to 40	Flange: 2.5	4.0, 6.3, 12, 16, 25
65	2.5	7 to 70	4 to 70	Flange: 2.5	4.0, 6.3, 12, 16,25
80	3	10 to 100	5 to 100	Flange: 2.5	4.0, 6.3, 12, 16, 25
100	4	20 to 200	10 to 200	Flange: 1.6	4.0, 6.3, 12, 16,25
125	5	25 to 250	13 to 250	Flange: 1.6	2.5, 4.0, 6.3, 12, 16
150	6	30 to 300	15 to 300	Flange: 1.6	2.5, 4.0, 6.3, 12, 16
200	8	80 to 800	40 to 800	Flange: 1.6	2.5, 4.0, 6.3, 12, 16