



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	Standard - 304 Stainless Steel
Housing:	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 Level:

Standard:	None
-----------	------

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 Rage 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

Order Selection(Non explosion-proof version)

Model Number									Description
TF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description
DN Size	4								DN4
	6								DN6
	10								DN10
	15								DN15
	20								DN20
	25								DN25
	32								DN32
	40								DN40
	50								DN50
	65								DN65
	80								DN80
	100								DN100
	125								DN125
	150								DN150
200								DN200	
Connection Type	FL								Flange Connection
	LW								Threaded Connection
	JZ								Clamp Connection
Type	N								24V Power, No Local Display, Pulse Output
	A								24V Power, Local Display, 4-20mA Output
	G1								Battery Power, Local Display, No Output
	GX								External Power, Local Display, RS485/Current/Pulse Output
	E1								Battery Power, Local Display, No Output
	EX								External Power, Local Display, RS485/Current/Pulse Output
Accuracy	05								Standard Range
	10								Extended Range
	02								Special Range
Flow Range	S								0.5
	W								1.0
	Z								0.2 (by custom, longer lead time)

Body Material	S		304 Stainless Steel
	L		316(L) Stainless Steel
Impeller Material	S		2Cr13 Impeller
	L		Duplex Steel Impeller
Temperature / Pressure Rating	N		Standard
	H(x)		High Pressure

Note: * DN20, DN32, DN65, DN125 are non-standard products and require custom orders.
 X represents a number indicating different functions; please consult sales personnel.