

THREAD LIQUID TURBINE FLOW METER

For Reliable Liquid Measurement



New High-tech
Enterprise



CE



Ex-proof



ISO

APPLICATION



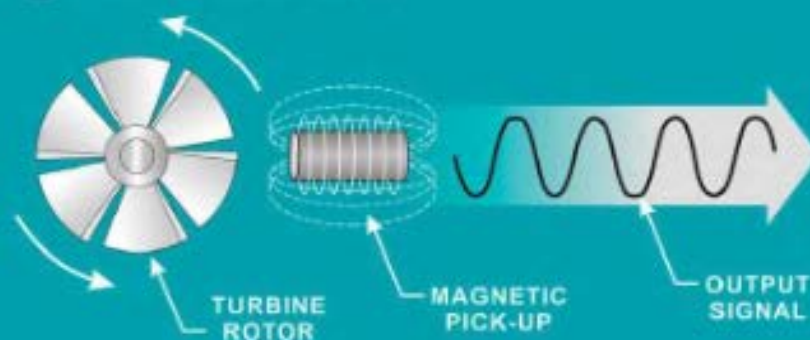
WHAT IS A LIQUID TURBINE FLOWMETER?

Turbine Flow Meter is a volumetric measuring turbine type. The flowing fluid engages the rotor causing it to rotate at an angular velocity proportional to the fluid flow rate.

The angular velocity of the rotor results in the generation of an electrical signal (AC sine wave type) in the pickup.

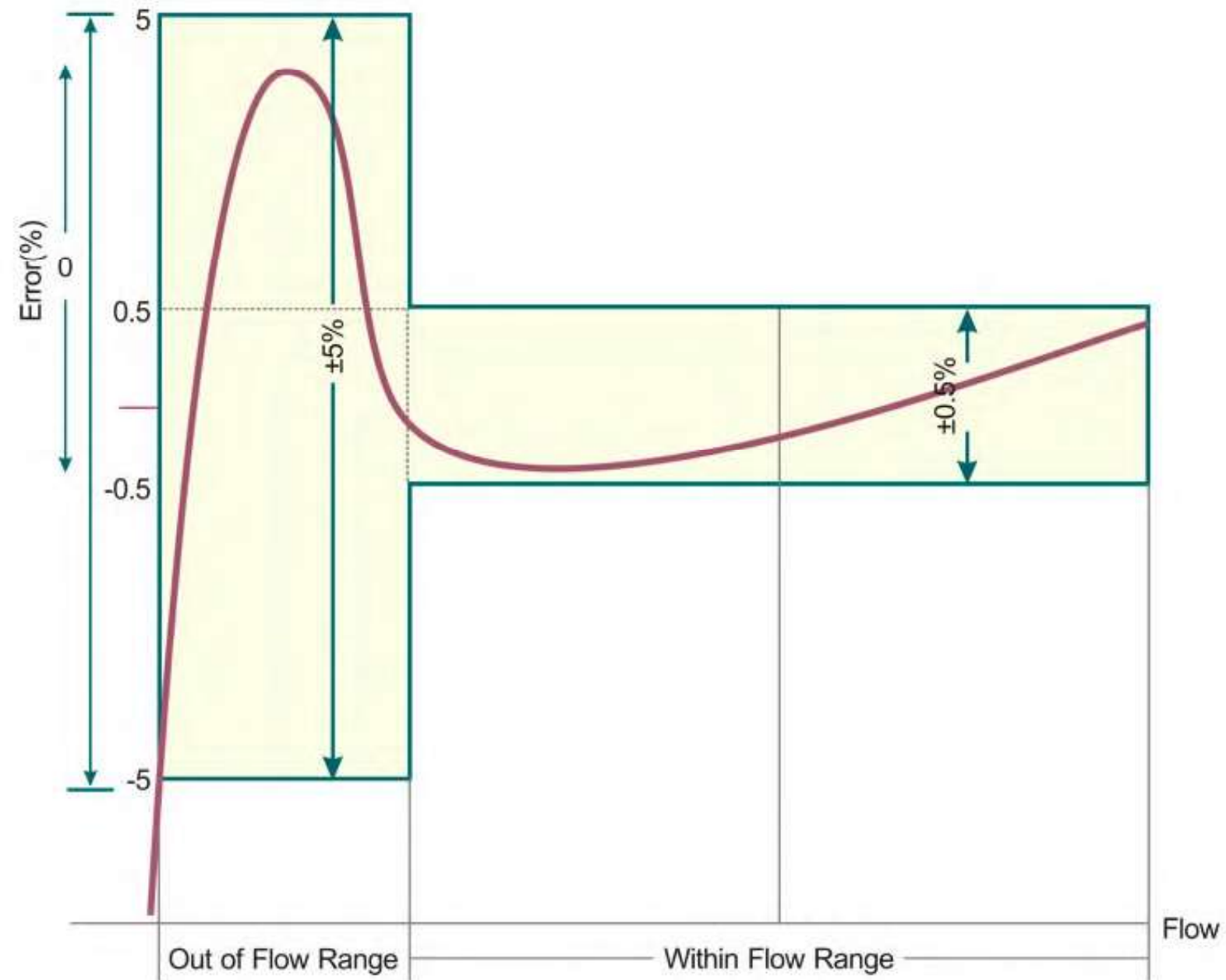
The summation of the pulsing electrical signal is related directly to total flow. The frequency of the signal relates directly to flow rate.

● Turbine Flow Meter



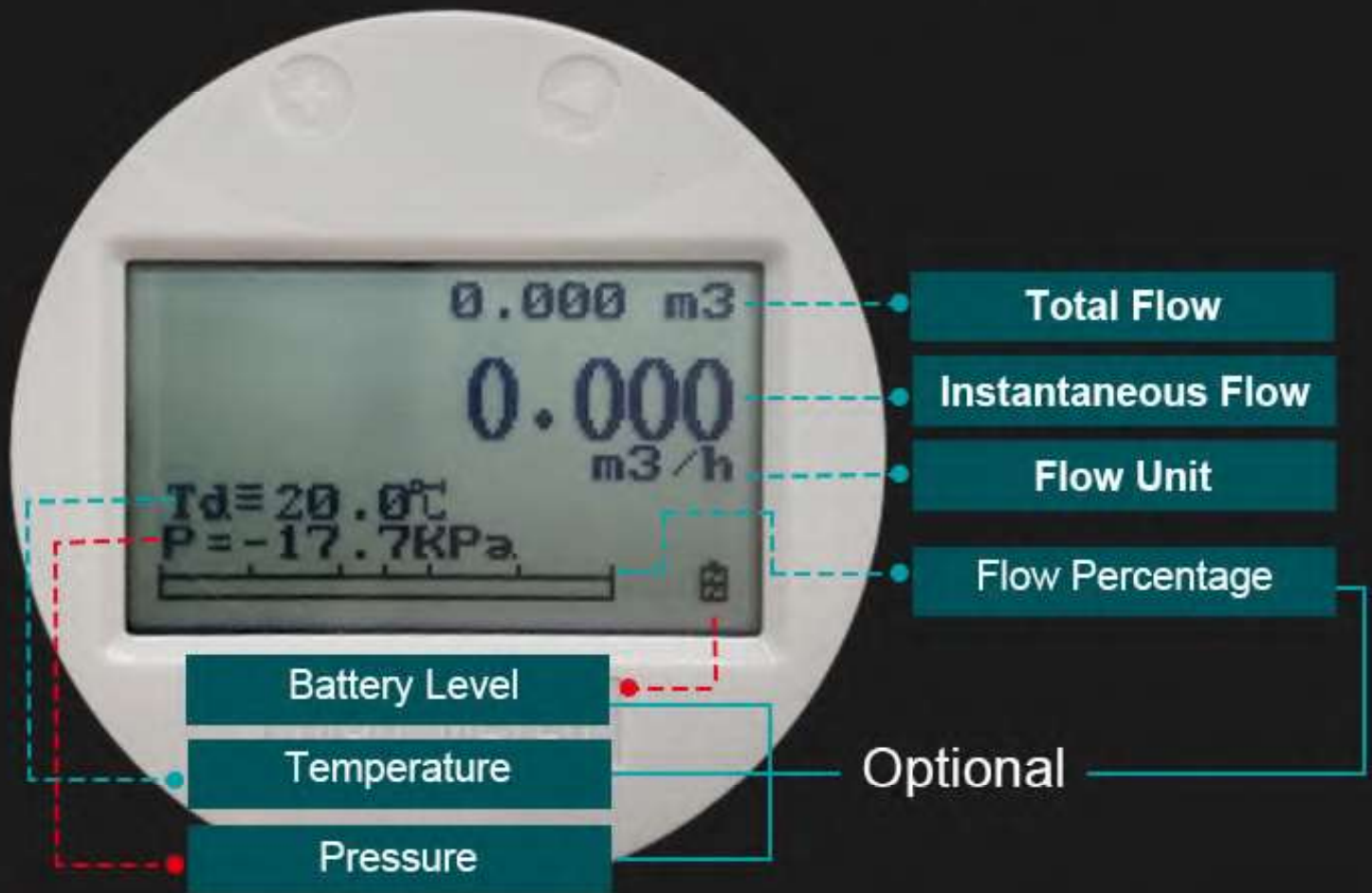
HIGH PRECISION EVERY DROP IS PRECIOUS

0.5% Accuracy(0.2% Optional)



PRODUCT FEATURES

Three Line HD LCD Display



- 1 Low-Power Design LCD
- 2 Multi-unit Free Switching, On-site Display and Analysis

Flow Unit: L, Gallon, M3, Kg, Pound, Ton, etc

Time Unit: Hour and Minute

Intelligent Transmitter



Dual Power
Supply (Optional)
DC3.6V Battery
+DC24V

Various Outputs

Pulse

4-20mA

RS485

HART

01 **360°** Rotate Converter, All-dimensional Data Observation

02 Filter & trigger gate anti-interference

03 Modular design, convenient for maintenance

Flow Sensor



SS304 Material
Optional SS316
Excellent Forging Process



Resist High Temperature
up to 150 °C



Resist High Pressure up
to 42MPa



Wear Resistance,
Durable Life, Anti-rust



DN10-DN100(Male Thread)



DN15-DN50(Female Thread)



DN4-DN10(Extend Straight pipeline)

Available Thread Standard



G Thread



NPT Thread



PT Thread

And More...

● Flow Guiding Element



- Stabilizing the flow and minimizing negative effects of turbulence

Duplex Steel
Material
(Optional)

8-piece impellers
structure, hard alloy
material



Integrated Precision Milling Impellers ●

DN4~DN25: 4-pieces impellers; DN32: 6-pieces impellers;
Above DN40: 8-pieces impellers

Pick-up Sensor

— 24V+
 — 24V-



Two Wire DC4-20mA

— 24V+ — Pulse
 — 24V-



Three Wire Pulse

PREAMPLIFIER



FLOWMETER
 Pickup coil generates frequency proportional to flow rate

PULSE COUNTER or **BATCHING SYSTEM**
 Counts pulses and indicates total flow or Gives electrical output for batching operation

- RS485 OUTPUT
- PRINTER
- 4-20mA OUTPUT
- STRIP CHART RECORDER
- PULSE OUTPUT
- REMOTE TOTALIZER
- ALARM OUTPUTS
- AND MORE

MORE PRODUCTS SHOW



PRODUCT PARAMETER

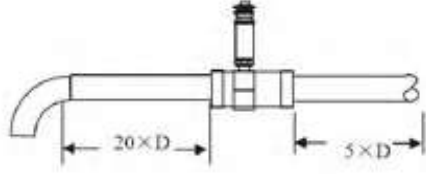
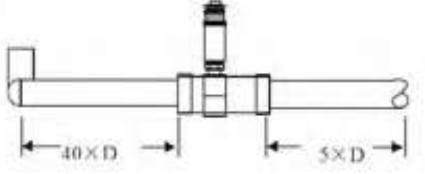
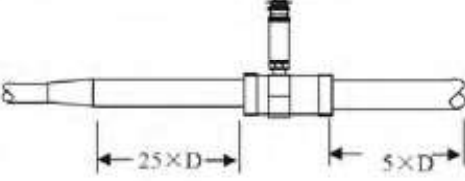
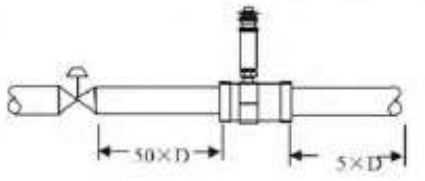
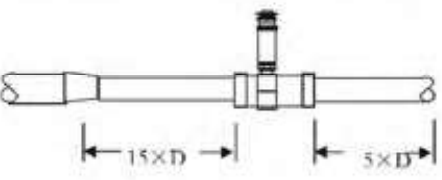
Technical Parameters

Size	DN4,6,10,15,20,32,40,50,65,80
Accuracy	±0.5% (±0.2% Optional)
Sensor Material	SS304 (SS316L Optional)
Ambient Conditions	Medium temperature:-20°C~+150°C; Atmospheric pressure:86Kpa~106Kpa Ambient temperature:-20°C~+60°C; Relative humidity:5%~90%
Signal Output	Pulse, 4-20mA
Digital Communication	RS485, HART
Power Supply	24V DC/3.6V Lithium Battery
Cable Entry	M20*1.5; 1/2"NPT
Explosion-proof class	Ex d IIC T6 Gb
Protection class	IP65

Flow Range

Diameter (mm)	Standard Range (m ³ /h)	Extended Range (m ³ /h)	Standard Pressure (Mpa)	Customized Pressure Rating(Mpa)
DN4	0.04-0.25	0.04-0.4	1.6	4.0
DN6	0.1~0.6	0.06~0.6	1.6	
DN10	0.2-1.2	0.15-1.5	1.6	6.3
DN15	0.6~6	0.4~8	1.6	10
DN20	0.8~8	0.45~9	1.6	
DN25	1~10	0.5~10	1.6	16
DN32	1.5~15	0.8~15	1.6	25
DN40	2~20	1~20	1.6	
DN50	4~40	2~40	1.6	42
DN65	7~70	4~70	1.6	
DN80	10~100	5~100	1.6	

Installation Notice

One 90° elbow		Two 90° elbows for two planes	
Concentric expander		Control valve half-open	
Concentric shrinkage wide open valve		Two 90° elbows for one plane	