

THREAD LIQUID TURBINE FLOW METER

For Reliable Liquid Measurement



New High-tech Enterprise



CE



Ex-proof



ISO

APPLICATION

Hydraulic/
lubrication
system

Alcohol

Petroleum

Distilled
Water

Food &
Beverage

HVAC
System

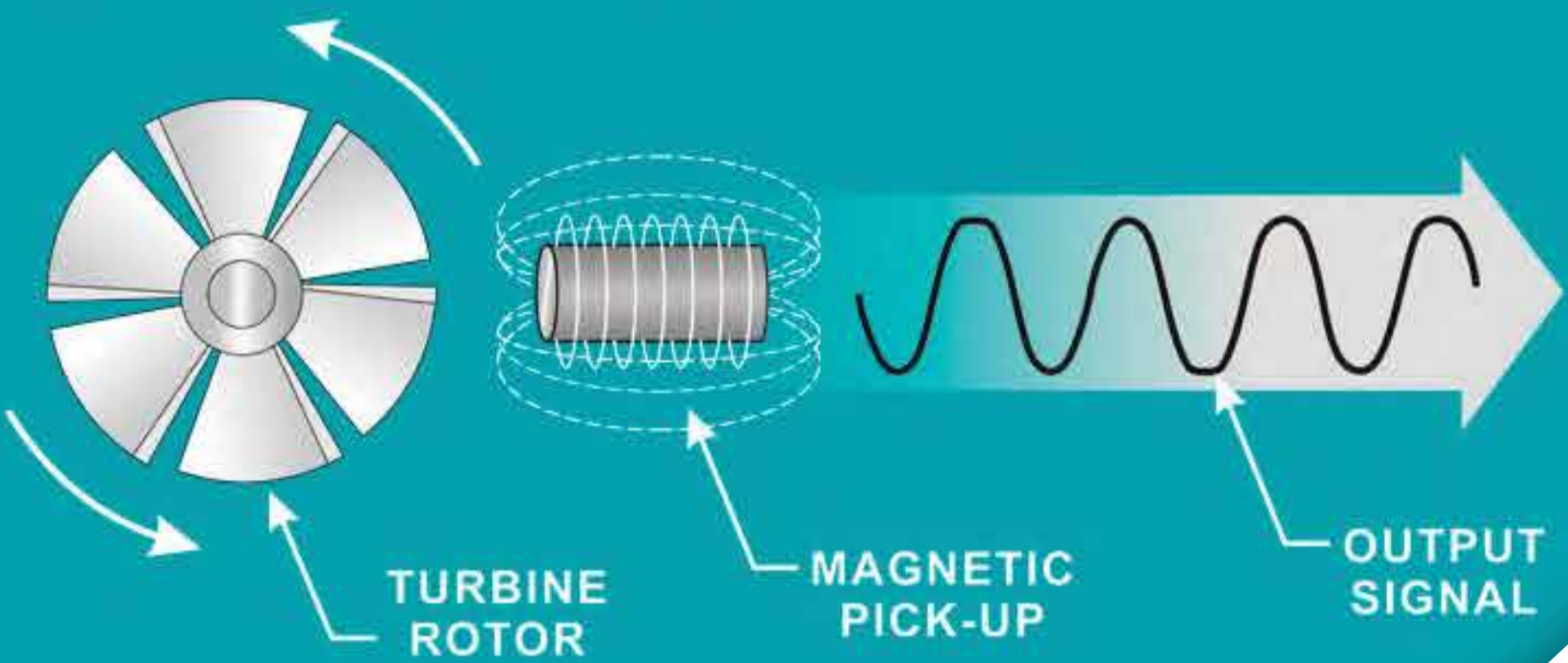
WHAT IS A LIQUID TURBINE FLOWMETER?

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.

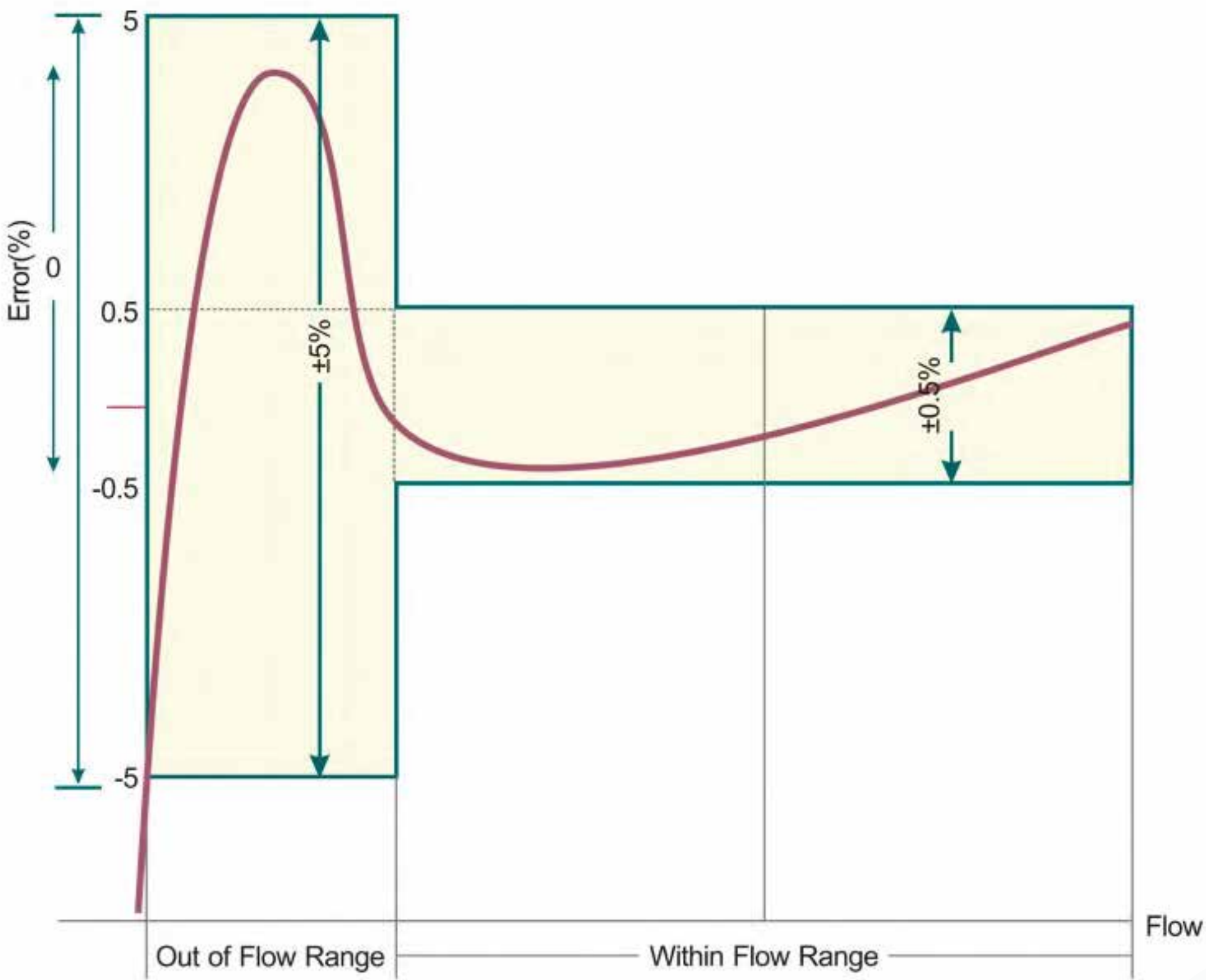
The summation of the pulsing electrical signal is related directly to total flow. The frequency of the signal relates directly to flow rate.

● Turbine Flow Meter



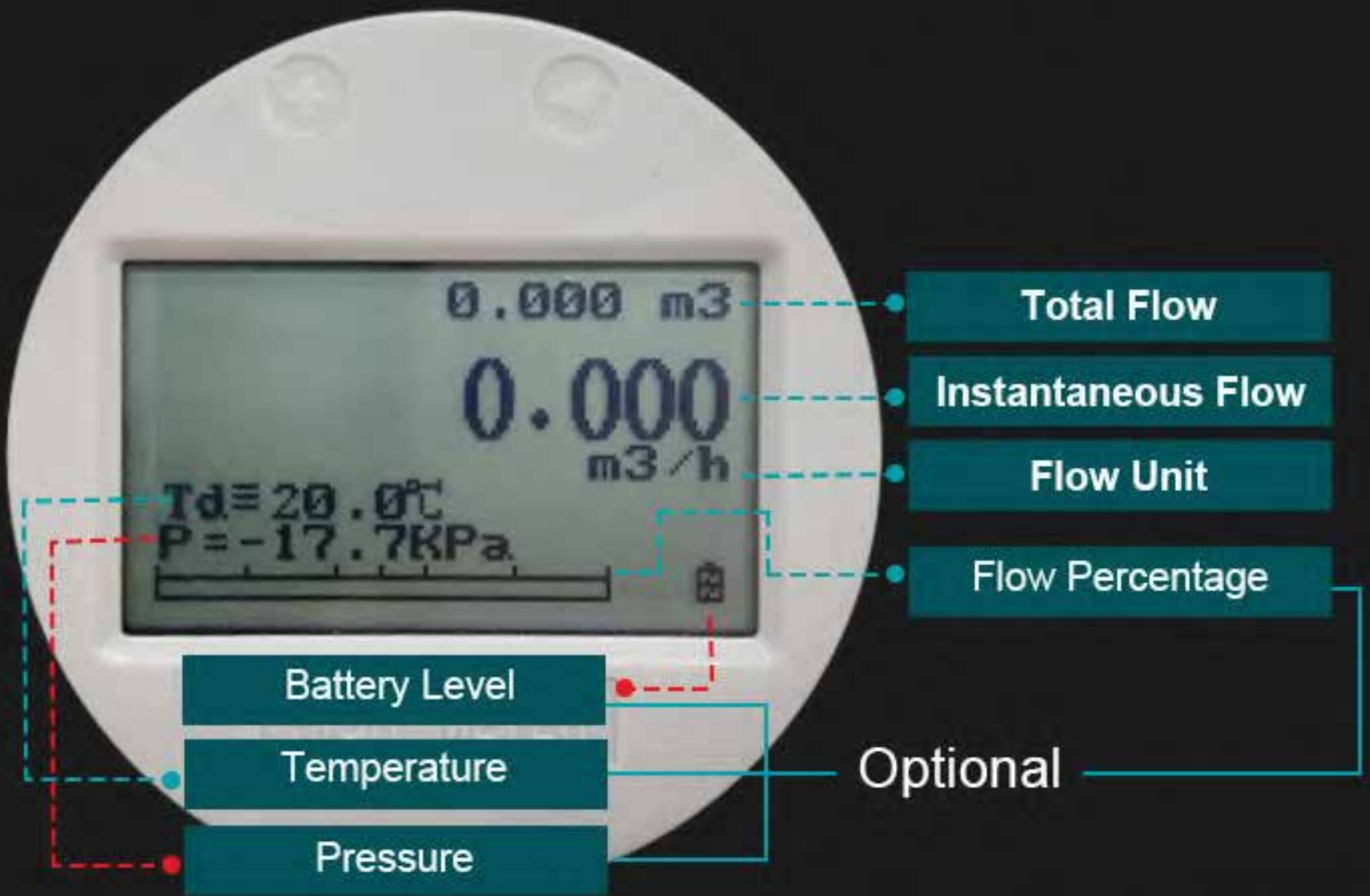
HIGH PRECISION EVERY DROP IS PRECIOUS

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



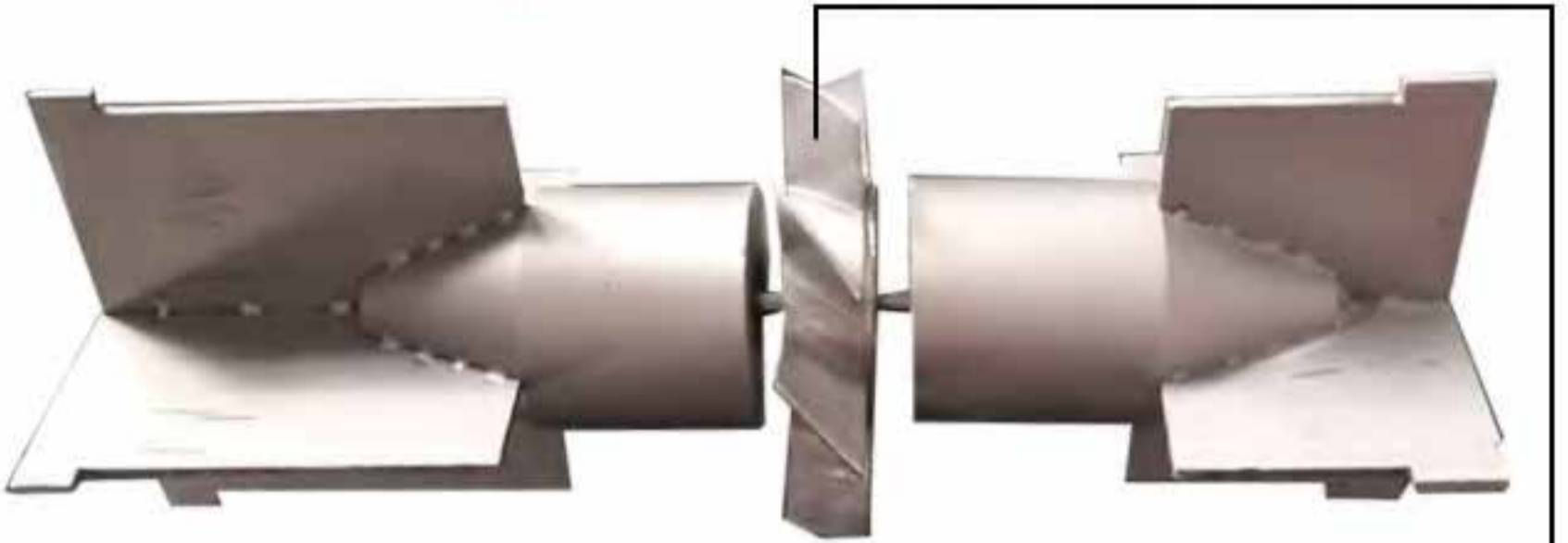
NPT Thread



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
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

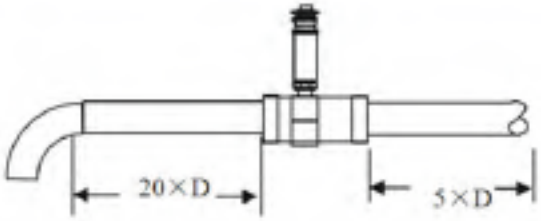
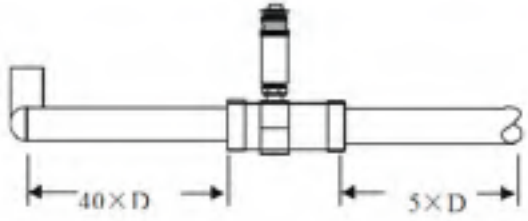
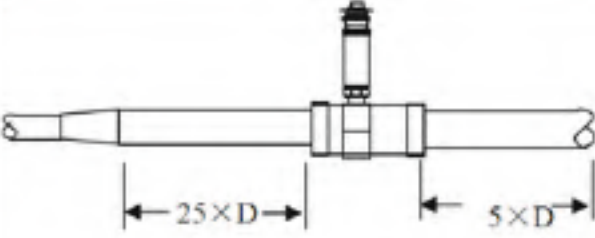
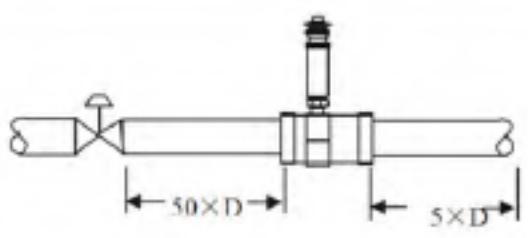
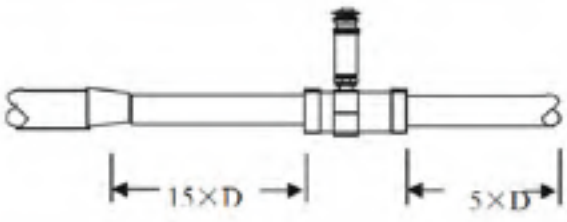
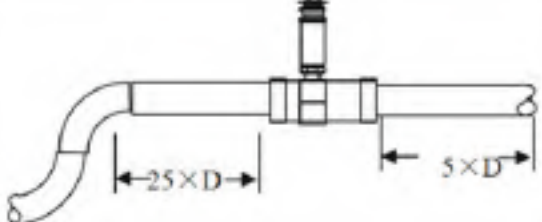
Flow Range

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	
DN20	0.8~8	0.45~9	1.6	10
DN25	1~10	0.5~10	1.6	
DN32	1.5~15	0.8~15	1.6	16
DN40	2~20	1~20	1.6	
DN50	4~40	2~40	1.6	25
DN65	7~70	4~70	1.6	
DN80	10~100	5~100	1.6	42

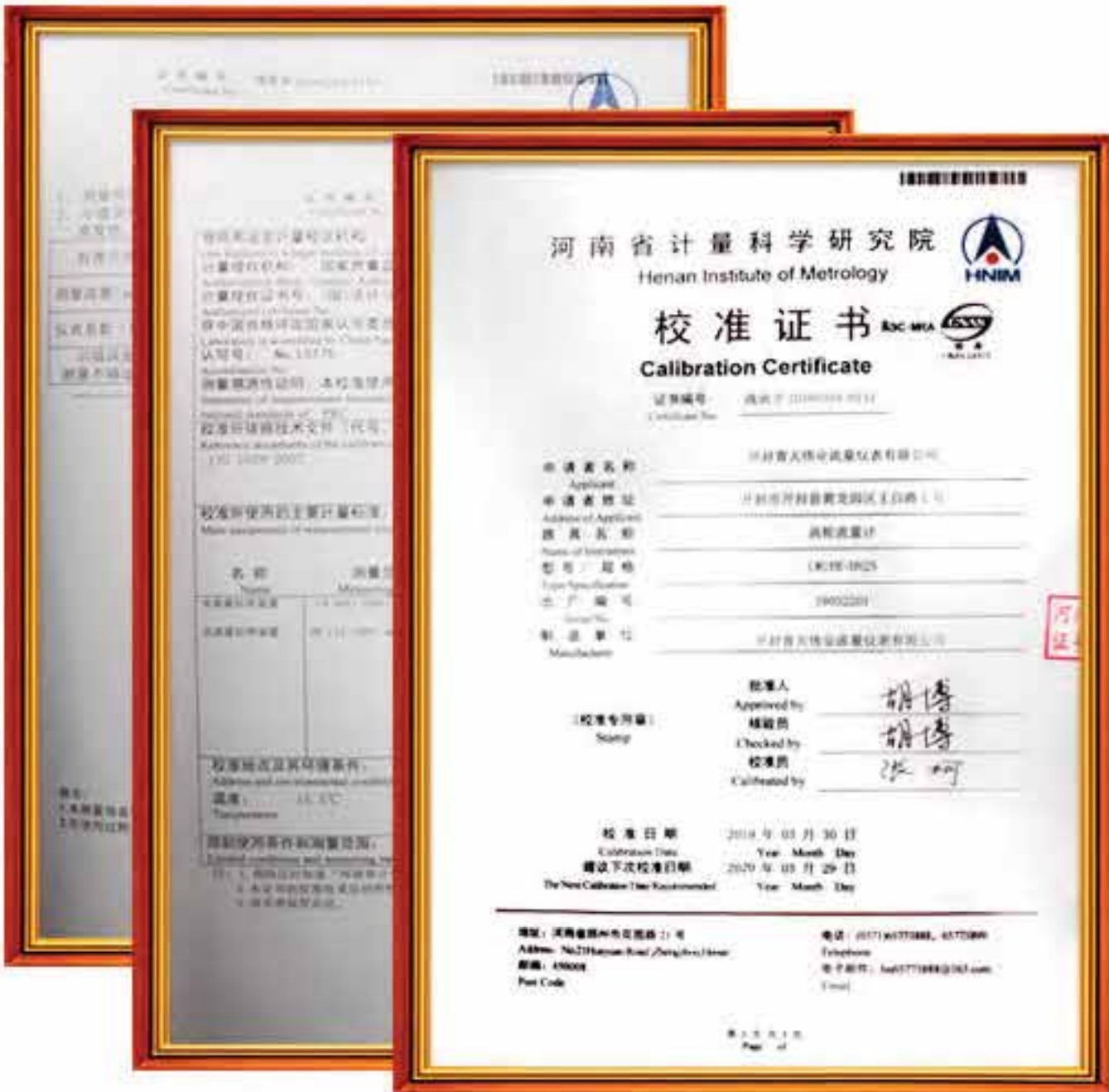
Model Selection

Model Suffix Code										Description	
LWGY-											
Diameter											Three Digitals; for example: 010: 10 mm; 015: 15 mm; 080: 80 mm;
Converter	N										No display; 24V DC; Pulse Output
	A										No display; 24V DC; 4-20mA Output
	B										Local display; Lithium Battery Power; No output
	C										Local display; 24V DC Power; 4-20mA Output;
	C1										Local display; 24V DC Power; 4-20mA Output; Modbus RS485 Communication
	C2										Local display; 24V DC Power; 4-20mA Output; HART Communication
Accuracy			05								0.5% of Rate
			02								0.2% of Rate
Flow Range				S							Standard Range: refer to flow range table
				W							Wide Range: refer to flow range table
Body Material					S						SS304
					L						SS316
Explosion Rating						N					Safety Field without Explosion
						E					Ex d IIC T6 Gb
Fluid Temperature							-T1				-20...+80°C
							-T2				-20...+120°C
							-T3				-20...+150°C

Installation Notice

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

CALIBRATION



Certified Accuracy $\pm 0.2\%$



CERTIFICATE



Liquid Turbine Flow Meter CE



Liquid Turbine Flow Meter Ex-proof



PACKING AND DELIVERY



SERVICE

- Offer professional model selection
- Provide installation video
- 2 Years warranty
- 24 hour appointed personal service
- Full refund in case of bad quality
- Sign confidentiality agreement, keep your business secret
- Accept various payment method, convenient for business transaction



Cash

VISA



MoneyGram. L/C

**CHINA LEADING FLOW METER
EXPORT BASE**

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



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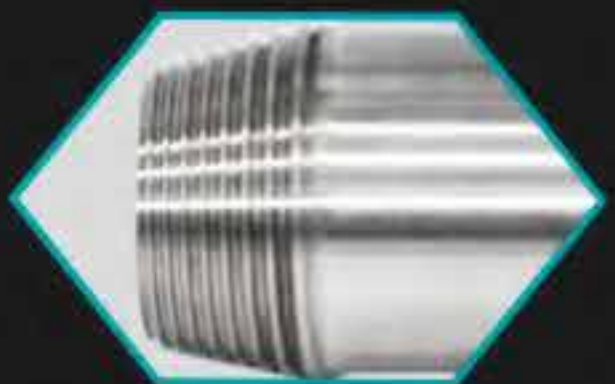
Available Thread Standard



G Thread



NPT Thread



PT Thread

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