

TIANJIN SURE INSTRUMENT CO., LTD.

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Products Brochure

E.910/21Rev001

***SURE WE ARE,
SURE TO BE BETTER.***

**TO WORK WITH INNOVATIVE SPIRIT
TO DEVELOP HIGH QUALITY PRODUCTS
FOR THE MEASUREMENTS OF FLUIDS.**



Assembly Workshop



Calibration Device



Impeller Processing Equipment

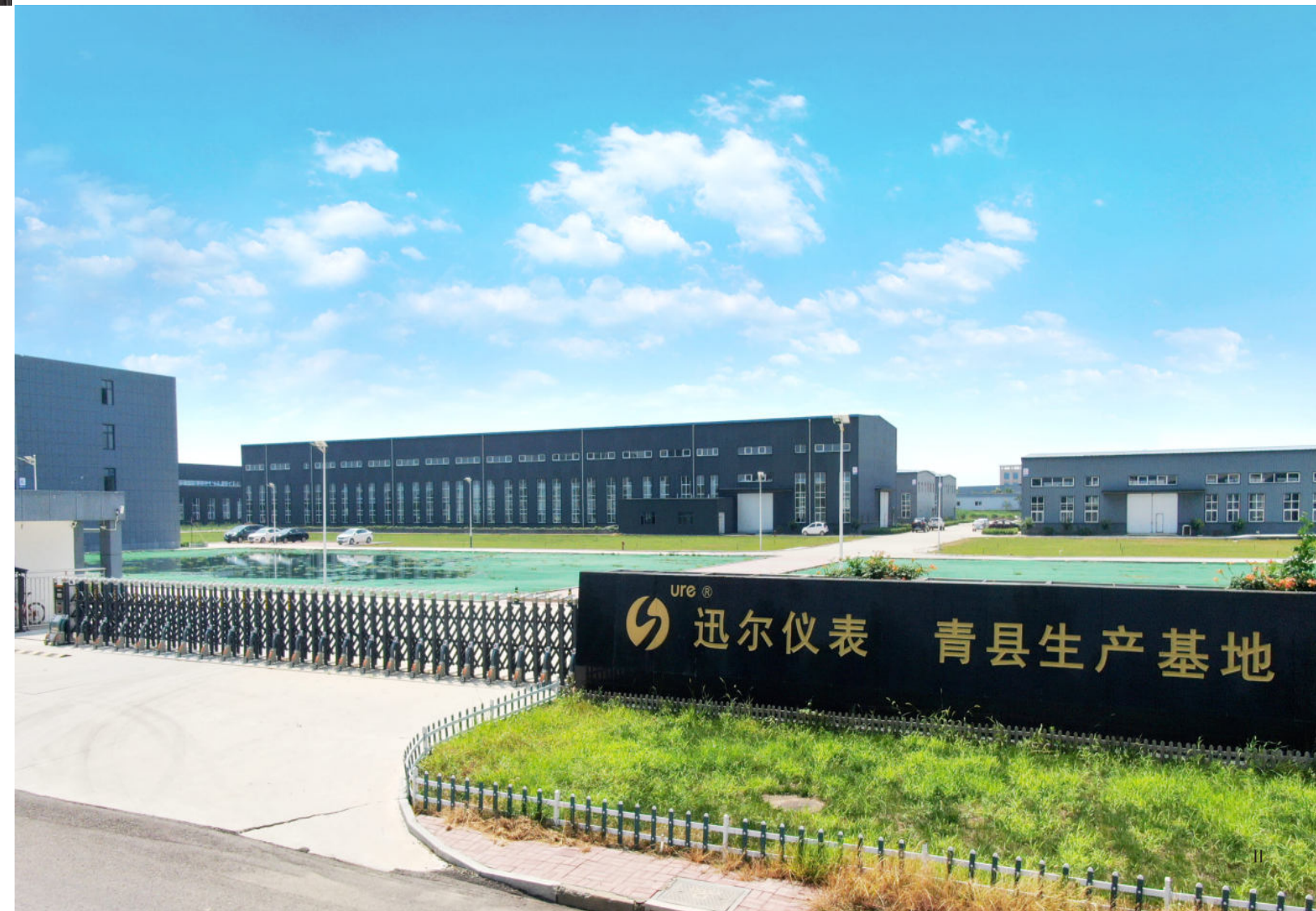


With excellent staffs, advanced equipments, strict quality control system and good services, our products are widely sold to more than 97 countries and gain good reputation from customers. Our aim is to provide a metering solution that helps our customers achieve operational improvement through their production capability, usually, in the form of reduced energy usage, improved product quality, lower emissions and greater production throughout. Reducing emissions, carbon footprint, and your company's impact on the environment is our goal. Not only will have a strong social and environmental impact but also a positive economic impact today and future.

THE COMPANY

TIANJIN SURE INSTRUMENT is engaged into the design, manufacture and service of measurement and analysis instruments field. With 14 years development, we have become one of the outstanding enterprises in this field in China.

At present, Sure Instrument is a professional and responsible flow meter enterprise with 353 staffs, 73000m² standardized workshops and machining centers, high-precision numerical control machines automated assembling line as well as other equipments.



LIQUID TURBINE FLOW METER



DESCRIPTION

The liquid turbine flow meter are specially designed for liquid measurement. It operate according to the turbine principle.

APPLICATIONS

- Petrochemical/energy industry
- Hydraulic/lubrication system
- Test systems
- Distilled water
- Clean water
- Food and beverage industry

FEATURES

- Light oil & purity liquid measurement
- Modbus RS485 Communication
- Backlight option
- Working Max Temp.: +150°C
- Unit of GPM, Kg/h, Ft³/h, LPM, BPD, m³/h, Ton/h
- Totalizer reset
- High/low alarm

TECHNICAL DATA

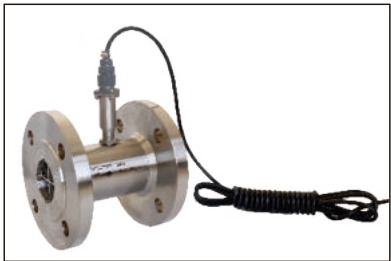
Output	Pulse; 4-20mA	
Accuracy	±1.0 of Rate; ±0.5% of Rate	
Ambient Temp.	- 20...+60 °C	
Fluid Temp.	- 20...+150 °C	
Body Material	SS304; SS316	
Rotor Material	2Cr13; CD4MCu	
Bearing Material	Tungsten Carbide	
Connection	Flange of DIN, JIS, ANSI	DN15- DN 200
	Thread of G, BSP, NPT	DN4- DN 50
	Sanitary Tri- Clamp	DN10- DN100
	Wafer	DN50- DN200
Communication	RS485	
Power Supply	24V DC; Battery; 220V AC	
Protection	IP65	
Explosion Proof	Exd IIC T6 Gb	



N2- Current Output Type

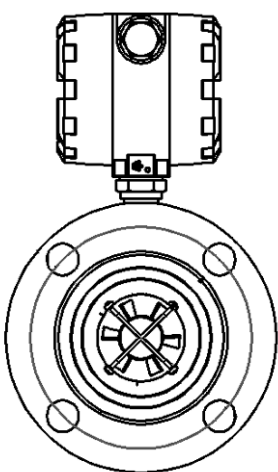
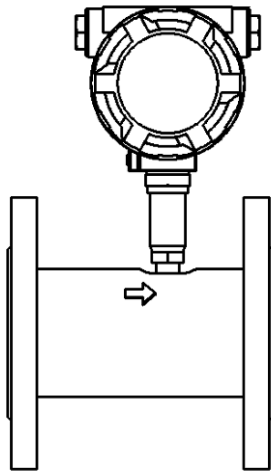


E- Digital Type



N1- Pulse Type

TECHNICAL DRAWINGS



LIQUID TURBINE FLOW METER

MODEL SELECTION

Model	Suffix Code									Description
LWGY-	①	②	③	④	⑤	⑥	⑦	⑧	⑨	Liquid Turbine Flow Meter
Diameter	XXX									Stand for diameter 004: DN4; 006: DN6 100: DN100; 200: DN200
Converter Type		N1								24V DC; Pulse output; No display
		N2								24V DC; Pulse output; No display; Ex
		A								24V DC; 4-20mA output; No display; Ex
		E1								Battery power supply; No output; Ex ; Digital display
		E2								24V DC; 2/3 wires 4-20mA/ Pulse output; Ex ; Digital display
		E4								24V DC; 0-20mA output; Ex; Digital display
		G								220V AC; 4-20mA output; Ex; Digital display
		FE								FE: Fluidwell E series converter(Refer to page 11)
		FF								FF: Fluidwell F series converter(Refer to page 12)
		Notice:								
Accuracy			10							±1.0% of rate
			05							±0.5% of rate
			02							±0.2% of rate (consult with factory)
Flow Range				S						Standard Range
				E						Extended Range
Body Material					S4					SS304
					S6					SS316
Rotor Material						Cr				2Cr13
						CD				CD4MCu
Explosion Proof							CT			Exd II C T6 Gb
							NA			No explosion proof
Connection								THM		Male thread; Available from DN4...DN50
								THF		Female thread; Available from DN4...DN50
								WAF		Wafer connection
								TRC		DN10- DN 100 (Sanitary type)
								DXX		D16: DIN PN16 Flange; D25: DIN PN25 Flange...
								AXX		A15: ANSI 150# Flange; A30: ANSI 300# Flange...
								JXX		J10: JIS 10K Flange; J20: JIS 20K Flange...
Temperature								T1		-20...+80°C
								T2		-20...+120°C
								T3		-20...+150°C

FLOW RANGE

Diameter (mm)	Standard Range (m³/h)	Extended Range (m³/h)	Max. pressure loss (kPa)
4	0.04-0.25	0.04-0.4	120
6	0.1-0.6	0.06-0.6	80
10	0.2-1.2	0.15-1.5	50
15	0.6-3.6	0.5-5	35
20	0.8-8	0.45-9	35
25	1-10	0.5-10	35
32	1.5-15	0.8-15	35
40	2-20	1-20	35
50	4-40	2-40	35
65	7-70	5-70	25
80	10-100	7-100	25
100	20-200	10-200	25
125	25-250	13-250	25
150	30-300	15-300	25
200	80-800	40-800	25

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