



# INSERTION ELECTROMAGNETIC FLOW METER

Model: F07.0401-I





New High-tech  
Enterprise



CE



ATEX



ISO

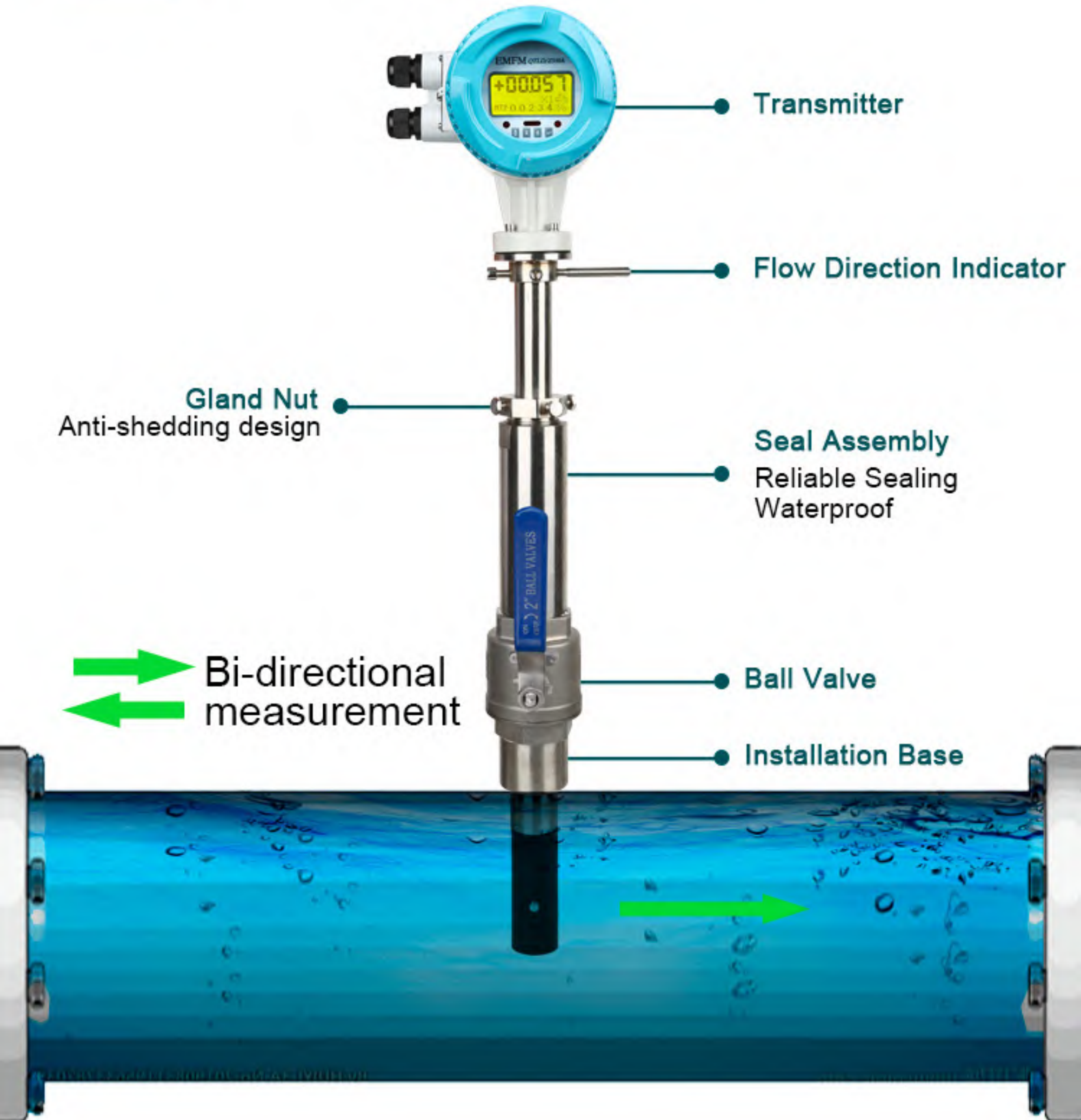
## APPLICATIONS

- Applicable to conductive liquid
- Widely used for tap-water, waste water, food & beverage and many other industrial fluids.



# PRODUCT FEATURES

## **01.** High Accuracy 1.5% No moving parts



# 02.

## Wide Range Measurement

Adjustable Depth

0.5  
m/s



15  
m/s



**DN100mm-DN3000mm**



**Pressure up to 16 bar**

## 03. Hot Tapping Application

No need to cut the flow  
Small pressure loss

Easy and quick to install



Thread ball valve G 2"



2" Flange ball valve

## 04. ABS/PP Probe, Max 80degC

Integrated injection molding,  
good abrasion resistance

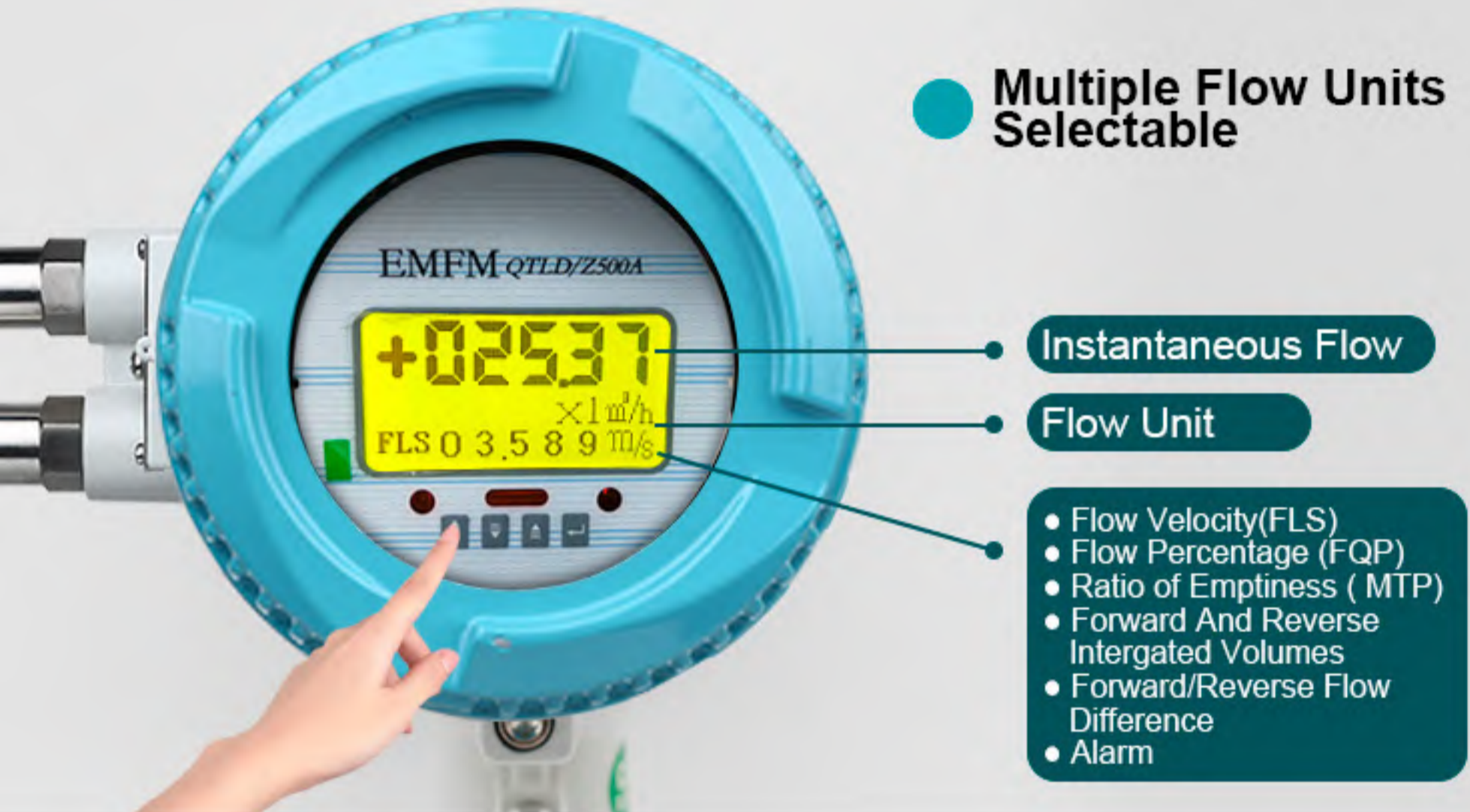
Built-in reference electrode,  
make sure well grounding

Electrode

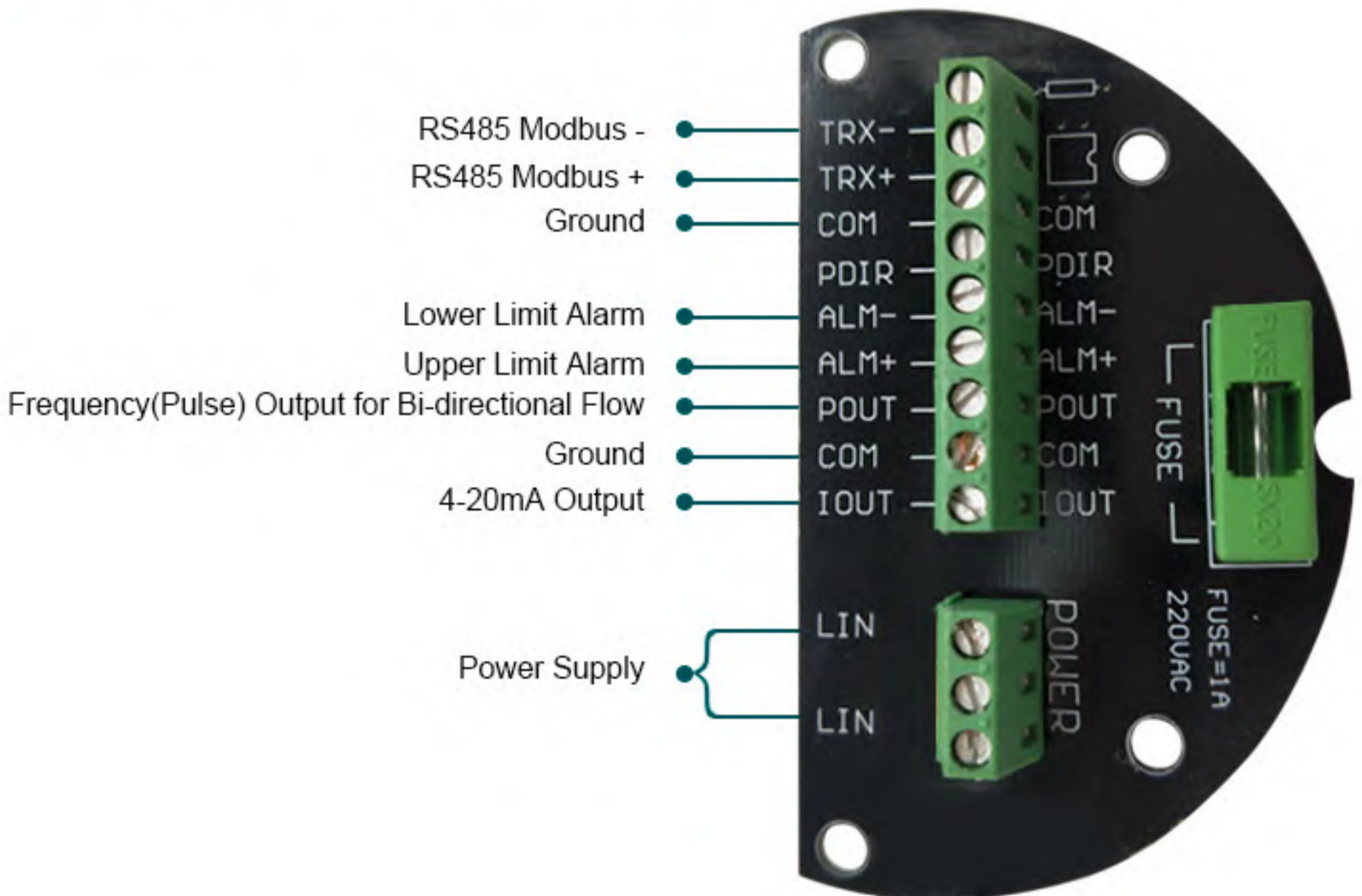


## 05. LCD Display

LCD backlight makes it easy to read day and night



## 06. Multi-Language, Module Design, Multifunctional Output



# 07. Optional Functions



# ENVIRONMENTAL TEST

High & Low Temperature Test, Different Humidity Test ,  
Make sure instruments can resist any harsh environments





# MORE PRODUCTS



# PRODUCT PARAMETER

## Main Performances Parameters

Size	DN100mm-DN3000mm
Nominal Pressure	1.6Mpa
Accuracy	1.5%
Probe	ABS, polypropylene
Electrode	SUS316L, Hastelloy B, Hastelloy C
Structure Type	Integral type, remote type
Medium Temperature	-20~+80 degC
Ambient Temperature	-20~+60deg C
Ambient Humidity	5-100%RH(relative humidity)
Measuring Range	Max 15m/s
Conductivity	>5us/cm
Protection Class	IP65(Standard); IP68(Optional for remote type)
Process Connection	2" Thread (standard), 2" flange (optional)
Output Signal	4-20mA/Pulse
Communication	RS485(Standard), HART(Optional),GPRS/GSM (Optional)
Power Supply	AC220V (can be used for AC85-250V) DC24V (can be used for DC20-36V) DC12V (optional), Battery Powered 3.6V (optional)
Power Consumption	<20W
Alarm	Upper Limit Alarm / Lower Limit Alarm
Self-diagnosis	Empty Pipe Alarm, Exciting Alarm
Explosion Proof	ATEX

## Main Performances Of The Electrode Materials

Electrode Material	Application
SUS316L	Applicable to industrial/municipal water, wastewater and low corrosive mediums. Widely used in petroleum, chemical industries.
Hastelloy B	Strong resistance to hydrochloric acids below the boiling point. Resist against oxidable acids, alkali and non-oxidable salts. For instance, vitriol, phosphate, hydrofluoric acids, and organic acids.
Hastelloy C	Exceptional resistance to strong solutions of oxidizing salts and acids. For example, Fe <sup>+++</sup> , Cu <sup>++</sup> , Nitric acids, mixed acids

## • Velocity-Flow Range Table

Size	Flow Range & Velocity Table							
(mm)	0.1m/s	0.2m/s	0.5m/s	1m/s	4m/s	10m/s	12m/s	15m/s
100	2.83	5.65	14.13	28.26	113.04	282.60	339.1	423.90
125	4.42	8.83	22.08	44.16	176.63	441.56	529.9	662.34
150	6.36	12.72	31.79	63.59	254.34	635.85	763.0	953.78
200	11.3	22.61	56.52	113.04	452.16	1130.40	1356	1696
250	17.66	35.33	88.31	176.53	706.50	1766.25	2120	2649
300	25.43	50.87	127.2	254.34	1017	2543.40	3052	3815
350	34.62	69.24	173.1	346.19	1385	3461.85	4154	5193
400	45	90	226.1	452	1809	4522	5426	6782
450	57	114	286.1	572	2289	5723	6867	8584
500	71	141	353.3	707	2826	7065	8478	10598
600	102	203	508.7	1017	4069	10174	12208	15260
700	138	277	692.4	1385	5539	13847	16617	20771
800	181	362	904.3	1809	7235	18086	21704	27130
900	229	458	1145	2289	9156	22891	27469	34336
1000	283	565	1413	2826	11304	28260	33912	42390
1200	407	814	2035	4069	16278	40694	48833	61042
1400	554	1108	2769	5539	22156	55390	66468	83084
1600	723	1447	3617	7235	28938	72346	86815	108518
1800	916	1831	4578	9156	36625	91562	109875	137344
2000	1130	2261	5652	11304	45216	113040	135648	169560
2200	1368	2736	6839	13678	54711	136778	164134	205168
2400	1628	3256	8139	16278	65111	162778	195333	244166
2600	1910	3821	9552	19104	76415	191038	229245	286556
2800	2216	4431	11078	22156	88623	221558	265870	332338
3000	2543	5087	12717	25434	101736	254340	305208	381510

Remark: Recommend flow velocity range 0.5m/s - 15m/s

# Model Select

		Selection											
QTLD/C		XXX	X	X	X	X	X	X	X	X	X		
Caliber (mm)	DN100-DN3000 Reference Code, please check caliber code table 13												
Nominal Pressure	1.6Mpa		3										
	Others		6										
Body Material	SS304			1									
	SS316			2									
Electrode Material	SUS316L				1								
	Hastelloy B				2								
	Hastelloy C				3								
Probe Material	ABS					1							
	Polypropylene					2							
Connection	Thread ball valve						1						
	Flange ball valve						2						
Structure Type	Integral							1					
	Remote							2					
Power Supply	AC220V										A		
	DC24V										D		
	3.6V Lithium Battery										E		
	Others										G		
Output Signal	4-20mA/Pulse,RS485											A	
	4-20mA,HART											B	
	GPRS											C	
	GSM											D	
	Others											E	
Ex-proof	Without Ex-proof											0	
	With Ex-proof											1	
Protection	IP65												A
	IP68												B

Optional Selection	
X	
1	Installation Accessories
2	Others

Table 13	Caliber	100	125	150	200	250	300	350	400	450	500	600	700	800	900
Caliber Code Table	Code	101	125	151	201	251	301	351	401	451	501	601	701	801	901
Table 13	Caliber	1000	1100	1200	1400	1500	1600	1800	2000	2200	2400	2600	2800	3000	
Caliber Code Table	Code	102	112	122	142	155	162	182	202	222	242	262	282	302	

# Installation

