

Digital Water Meter

Ultrasonic series

DN50 ~ Dn300



Overview

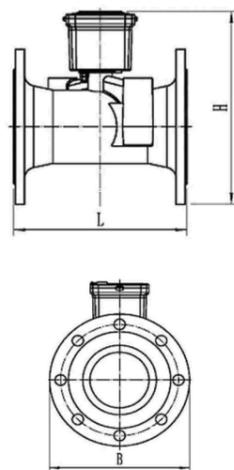
Ultrasonic water meter is a new type of water meter that measures and displays flow based on the principle of time difference between forward and backward flow when ultrasonic waves propagate in water. The instrument can be equipped with wired or wireless data communication interfaces to communicate with collectors, concentrators, or network servers, forming a remote meter reading management system. The management department can retrieve data from the meter as needed, facilitating the statistics and management of user water consumption.

No Moving Parts, high accuracy for years' long. None moving components in flow sensor, avoid long term abrasion of mechanical parts which may result to inaccuracy measurement and failure of meter. Such design is also resistant to impurities, therefore no-inspections and maintenance cost-free.

Features

- Ultrasonic water meter's intelligent measuring instrument is consist by the temperature sensor , flow sensors and calculators;
- No mechanical moving parts, no abrades and has a long serving lifetime;
- Built in lithium battery power supply ensures over (6+1) years of us Built in flash memory 32KB, it can save the data more than 10 years;
- Support RS-485 - Modbus RTU Communication;
- Suitable for outdoor installation - IP68 waterproof level ;
- Countable reverse flow.

Dimensions



DN	L	W	H	Flange Connection		
				mm	flange Diameter	Bolt Diameter
DN50	200	170	215	170	125	4-M16
DN65	200	185	220	185	145	4-M16
DN80	225	200	235	200	160	8-M16
DN10	250	220	255	220	180	8-M16
DN12	250	250	285	250	210	8-M16
DN15	300	285	335	285	240	8-M16
DN20	350	340	405	340	295	12-M20
DN25	450	405	470	405	355	12-M24
DN30	500	460	525	460	410	12-M24

Parameters

Nominal Diameter (mm)	50	65	80	100	125	150	200	250	300
Max Flow Q4 (m ³ /h)	31.25	50	78.75	125	200	312.5	500	787.5	1250
Nominal Flow Q3 (m ³ /h)	25	40	63	100	160	250	400	630	1000
Transitional Flow Q2 (m ³ /h)	0.16	0.256	0.4	0.64	1.024	1.6	2.56	4.03	6.4
Min Flow Q1 (m ³ /h)	0.1	0.16	0.252	0.4	0.64	1	1.6	2.52	4
Protection class	IP68								
Measuring range	Q3/Q1 R125/ R160/ R200/ R250 /R400								
Accuracy Class	Class 2, Class B								
Battery Life	≥8years								
Temperature Class	T30, T50								
Pressure loss Class	ΔP63								
Flow profile sensitivity Class	U10/D5								
Electromagnetic environment class	E1								
Working Pressure	1.6Mpa								
Pressure Loss Classes	0.04bar								
Flow Profile Sensitivity Class	U10/D5								
Installation Position	Horizontal or Vertical								
Customizable special features	Identification and alarm of pipeline leakage, explosion, and scaling								
Display	LCD, 9 digits + additional characters								
Communication Interface	Rs485 - Modbus RTU/ Pulse output/GPRS/NB-IOT/LoRawan								