Bulk Ultrasonic Water Meter BUW

SKU: BUW

Doc No: BUW-DS-EN-10

Introduction

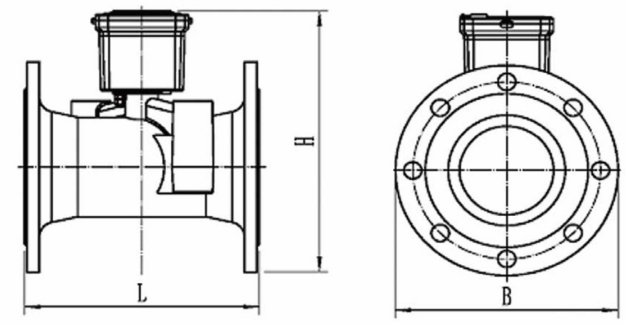
BUW Bulk Ultrasonic water meter comprises the quality temperature sensor, the flow sensor, and a flow computer. The temperature sensor measures the temperature of the water and the flow sensor to measure the volume of water that flows through the pipelines by the transit time difference. The two data are sent to the flow computer after being collected, the consumption water quantity is worked out, stored, and indicated on the LCD finally.



Features

- Ultrasonic water meter's intelligent measuring instrument consists of the temperature sensor, flow sensors, and flow computer;
- Could provide important application and data for many applications in the pipeline;
- Ultrasonic water meter is suitable for application environments requiring high range ratio(Q3/Q1)and forwards and reverse metering;
- The flow computer used sensor and through the time difference to collect temperature differences and sound waves to complete accurate measurement of water flow;
- And can provide important applications and data for many applications.

Dimension Drawings



Dimensions

Nominal Diameter	Length L	Width B	Hight H	Flange Connection		
mm				Flange Diameter	Bolt Ciecle Diameter	Bolt Size-M
DN50	200	170	215	170	125	4-M16
DN65	200	185	220	185	145	4-M16
DN80	225	200	235	200	160	8-M16
DN100	250	220	255	220	180	8-M16
DN125	250	250	285	250	210	8-M16
DN150	300	285	335	285	240	8-M20
DN200	350	340	405	340	295	12-M20
DN250	450	405	470	405	355	12-M24
DN300	500	460	525	460	410	12-M24

Specification

Nominal diameter(mm)	50	65	80	100	125	150	200	250	300
Max flow Q4(m3/h)	50	78.75	78.75	125	200	312.5	500	787.5	1250
Nominal flow Q3(m3/h)	40	63	63	100	160	250	400	630	1000
Transitional flow Q2(m3/h)	0.16	0.756	0.252	0.4	0.64	1	1.6	2.52	4
Min flow Q1(m3/h)	0.1	0.158	0.158	0.25	0.4	0.625	1	1.575	2.5
Protection class	IP68								
Measuring range	Q3/Q1 R250/R400								
Accuracy class	Class 2								
Battery life	8 years								
Temperature class	T50								
Pressure loss class	ΔP63								
Flow prefile sensitivity class	U10/D5								
Environmental class	Class B,M1								
Electromagnetic environment class	E1								
Working pressure	1.6Mpa								
Max flow indication(m3)	9999999.9								
Reverse flow indication(m3)	9999999.9								
Installation position	Horizontal or Vertical								

NOTE: The flange dimension conforms to ISO7005-1:1988 standard. Flange standard can be customized. Order for products of special requirements is also accepted.

LoRaWAN Specification

Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930Mhz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	1oC..+65oC
Housing	Polycarbonate plastic, IP68

Ordering codes

Item code	**Descriptions**
BUW-050-LRW-8-01	Bulk Ultrasonic Water Meter DN50 with LoRaWAN connectivity, IP68, 860-870 Mhz for EU868, IN865, RU864
BUW-050-LRW-9-01	Bulk Ultrasonic Water Meter DN50 with LoRaWAN connectivity, IP68, 900-930 Mhz for KR920, AS923, AU915, US915
** Replace 050 by 065 .. 300 for different sizes*	

⚠ Link for full datasheet:

⚠ Link for manual:

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