SHB01-15E~50E Water Meter User Manual



Purpose: Primarily used to record the volume of tap water flowing through pipelines.

It also converts water consumption into an electrical signal output.

Features: • Water consumption can be directly displayed in the table, while recording usage data.

Convert water volume into an electrical signal for output;

• Each flow of a specified volume of water generates an electrical signal;

Signal type: snap switch or Hall element transmission.

Usage conditions: • Water temperature: ≤40° C; Hot water meter reading ≤90° C.

• Nominal pressure: ≤1.0 MPa;

•The water meter should not be installed in a damp area;

Reading error: When measuring from the minimum flow rate to values excluding the boundary point

The low traffic range is ±5%.

From boundary flow rates to maximum flow rates

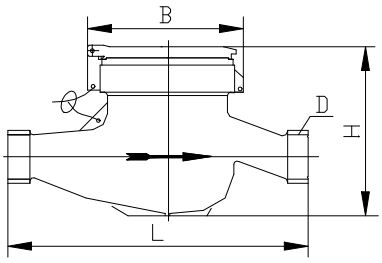
The high range of measurement accuracy is ±2% (for hot water meters, it is ±3%).

Main technical parameters:

model	nominal Number Diameter	calculate grade	overload rate of flow	in common use rate of flow	Boundary rate of flow	minimum rate of flow	minimum Reading	maximum Reading
	mm		m3/h				m^3	
SHB01-15E	15	A/B	3	1.5	0.15/0.12	0.06/0.03	0.0001	99,999
SHB01-20E	20	A/B	5	2.5	0.25/0.20	0.10/0.05	0.0001	99,999
SHB01-25E	25	A/B	7	3.5	0.35/0.28	0.14/0.07	0.0001	99,999
SHB01-32E	32	A/B	12	6	0.60/0.48	0.24/0.12	0.0001	99,999
SHB01-40E	40	A/B	20	10	1.00/0.80	0.40/0.20	0.001	99,999
SHB01-50E	50	A/B	30	15	1.50/1.20	0.60/0.30	0.001	99,999

External dimensions and weight: (See the table below and Figure 1)

model	bore	long L	wide B	Gao H	Connection Thread	weight W
	mm				D	kg
SHB01-15E	15	165	99	124	G 3 /4B	1.5
SHB01-20E/	20	190	99	124	G1B	1.7
SHB01-25E	25	225	103	132	G11/4B	2.4
SHB01-32E	32	230	104	137	11/4NPT	2.7
SHB01-40E	40	245	124	167	G2B	4.8
SHB01-50E	50	280	125	167	G21/2B	7.2



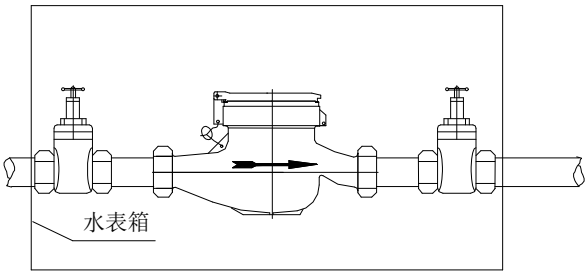


Figure 1 Figure 2

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Signal line connection method:

Transmitter Element	□eed switch		□all Element	
Message Type	□Single Message	□Dual Engine News	□Anti-theft Signal	
Line Color / use	Red, Brown	bla ck	La n	Huang
	Power supply, anti-theft	public	signal	signal
Signal flow rate (L/pulse)		□ 10	□ 100	

Installation and Use:

1. The diameter of the water meter should be selected based on the flow rate at the installation site, and corrosive liquids should not be used.

2. The installation location should avoid direct sunlight, freezing temperatures, contamination, humidity, and water immersion to facilitate disassembly, assembly, and meter reading. During freezing periods, apart from protecting the water meter and pipes...

In addition to wrapping the meter, close the inlet valve of the water meter when not in use and open both the outlet drain valve and the faucet to prevent damage caused by freezing expansion of the meter.

It is recommended to install it in a dedicated water meter box.

3. The water meter must be installed horizontally, with its face facing upward and the arrow direction aligned with the water flow direction.

4. Before installing new pipelines, thoroughly flush out all debris such as stones, sand, and hemp fibers from the pipeline before attaching the water meter to prevent meter malfunctions.

5. For accurate measurement, the faucet should be positioned higher than the water meter.

6. If the hot water meter is installed at the boiler feed pipe, prevent hot water exceeding 90° C from flowing back and damaging the meter.

7. The water meter should not be directly connected to the pipeline; instead, it must be linked via a coupling, a

sealing gasket, and a connecting nut. During installation or removal of the water meter, under no circumstances should...

Use only the available force to pull, to avoid damaging the case.

8. Prolonged use of water meters may cause impurities such as rust in the pipes to clog the filter screen or enter the meter itself, leading to increased measurement errors or impaired normal operation.

It is recommended to wash it every three years and recalibrate it, but do not disassemble or assemble it yourself.

9. When water is not in use, any slight movement occurs due to unstable water pressure in the pipeline or other causes.

Attachment: Two pipe fittings, two nuts, and two rubber sealing rings are provided with each water meter.

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