

H7-BM1

User Manual v1.2



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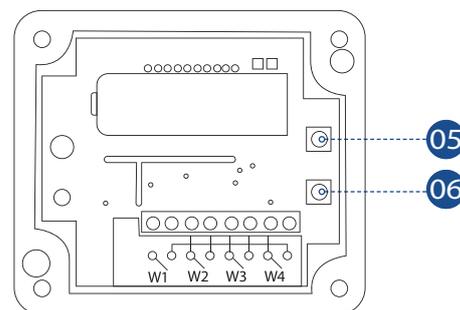
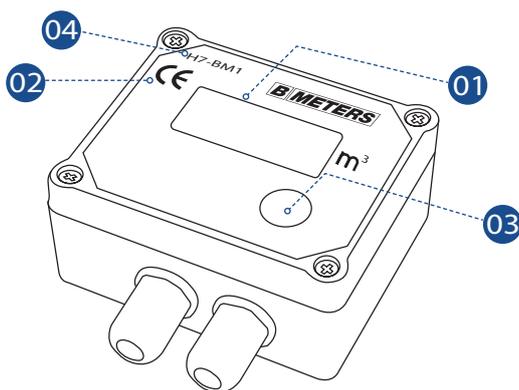
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1. Content

Device



- 01. LCD Display
- 02. CE marking
- 03. K1 button
- 04. Model
- 05. K3 button
- 06. K2 button

Functionality

The H7-MB1 device allows totalizing and reading of the impulse signals generated by up to 4 water meters.

2. Operation

H7-BM1 is equipped with 3 buttons and LCD display. K1 button is located externally near LCD display. K2 and K3 buttons are located internally as showed in the following picture. The display is normally off, it can be turned on by pressing the K1 key. K1 button is used in normal operating mode, for switching the display view to another channel.

Setting the pulse value

📌 Comply to the following instructions to set the pulse value:

- A. Press **K1** so that the name of the desired channel appears in the form, for example, "ch1";
- B. While it is displayed, our example, "ch1" press **K3**; the number of pulses per unit shown on the display appears and the youngest digit starts flashing. Subsequent pressing of **K3** can increase it:
 - For example: if the water meter has a pulse of 1 pulse = 10 liters, we set the value to 100, as 100 pulses give 1 unit (1 m³);
- C. Pressing **K2** cycles through the digits until the end;
- D. Repeat the operation of points 1-3 for the remaining channels.

Set the starting reading value

📌 Comply to the following instructions to set the reading value:

- A. Press **K1** so that the name of the desired channel appears in the form, e.g. "ch1"
- B. While "ch1" is displayed, press **K2**; the fractional part of the display appears and the youngest digit starts flashing;
- C. Use the **K3** key to set it to the desired value and press **K2** to cycle through the number positions until the flashing stops.;
- D. Repeat the operation of points 1-3 for the remaining channels.

Attention

⚠ It is possible to set the starting reading value after having initially set the pulse rate.

3. Configuration of input filters

📌 Comply to the following instructions to configure input filters:

The minimum required input pulse duration can be set for each channel. By default, it is set to about 64ms. This allows pulses longer than 64ms to be accepted.

Setup	Sampling rate			
	1	2	3	4
0	16	32	64	128
1	32	64	128	256
2	48	96	192	384
3	160	320	640	1280
4	320	640	1280	2560
5	480	960	1920	3840
6	640	1280	2560	5120
7	800	1600	3200	6400
8	960	1920	3840	7680
9	1120	2240	4480	8960



4. Information for the correct disposal

 This product falls within the scope of Directive 2012/19/EU on the management of waste electrical and electronic equipment (RAEE). The appliance should not be disposed of with household waste as it consists of different materials that can be recycled at the appropriate facilities. Inquire through the municipal authority about the location of the ecological platforms to receive the product for disposal and its subsequent proper recycling. The product is not potentially dangerous to human health and the environment, but if abandoned in the environment impacts negatively on the ecosystem. The crossed-out bin symbol on the label on the appliance indicates that the product complies with the legislation on waste electrical and electronic equipment. The abandonment of the equipment in the environment or the improper disposal of the same is punished by law.

5. Specifications

Impulse signal sources	Up to 4
Maximum reading value	99999.999 m ³
Settable impulse values	1 to 9999 pulse/unit
Wall mounting	Using 2 screws Ø6
Power supply	Internal lithium battery (11 years life*)
External dimensions (W x H x D)	89×73×42 mm
IP protection	IP54

*The battery life strongly depends on the working time window, set during the configuration process, and on the environmental conditions.