HR-RED

High Resolution Remote Electronic Display

APPLICATION

The High Resolution Remote Electronic Display (HR-RED) is designed to provide remote visual readings when connected directly to Badger Meter high resolution products: HR-E®, HR-E LCD, HR-E LCD 4-20 encoders, or E-Series® Ultrasonic meters. The HR-RED is used to read compatible encoder products that are not easily accessible or are in difficult to read locations. Installations such as those inside houses or buildings, meter vaults, or dangerous industrial locations are ideal for the HR-RED.

OPERATION

The HR-RED is a battery operated device. When attached to Badger Meter high resolution encoders or high resolution E-Series Ultrasonic meters, the unit is designed to provide the same output resolution as the encoder, up to 9 digits for Badger Meter products. It also displays the encoder serial number. To conserve battery life the HR-RED is awakened only when the internal acoustic switch is activated. This is easily accomplished by tapping the target circle on the register display.

How the meter reading displays depends on the output resolution. The letters "RD" display to the left of the digits. Decimal points do not display.

6 digit output or less: "RD" and all digits appear at the same time, right-justified, and display for 10 seconds.

EXAMPLE of 6 digit meter reading

<displays for 10 sec>	**RD 123456**

7 or 8 digit output: "RD" appears by itself for 2 seconds. Then the complete meter reading (up to 8 digits) displays for 10 seconds.

EXAMPLE of 8 digit meter reading

<displays for 2 sec>	**RD**
<displays for 10 sec>	**12345678**

9 digit output: "RD" appears, followed by the first of the 9 digits, and displays for 5 seconds. Then the remaining 8 digits display for 10 seconds.

EXAMPLE of 9 digit meter reading

<displays for 5 sec>	**RD 1**
<displays for 10 sec>	**23456789**

After the meter reading displays, the serial number of the encoder or meter displays. Then the HR-RED returns to sleep mode.

Tap Target Circle to Activate

TAMPER-PROOF FEATURES

The HR-RED is supplied with an anti-tamper indicator. Any time the connection is interrupted, a visual alarm appears on the display.

There is no maintenance since the electronics and battery are fully encapsulated in the housing and not accessible. The unit is also supplied with a tamper resistant Torx® seal screw to prevent access to the unit.
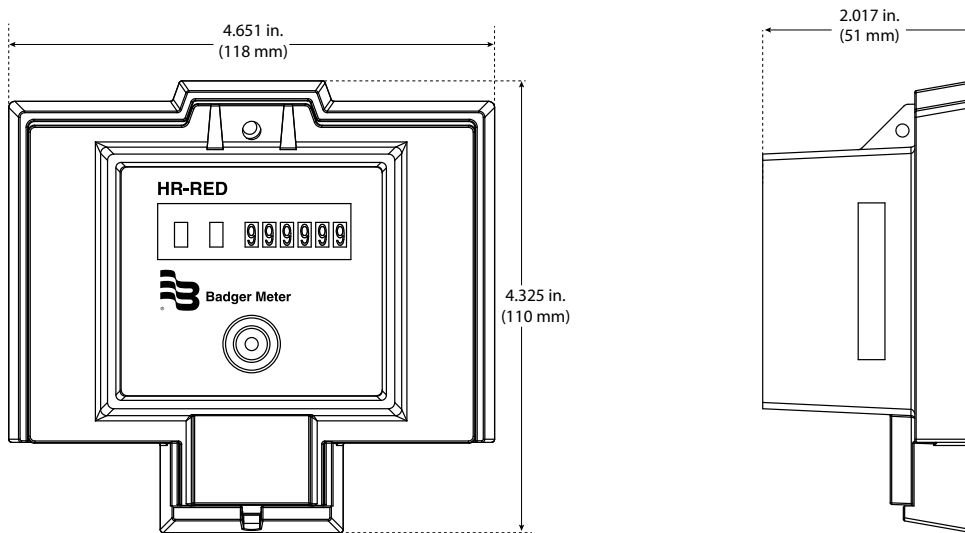
FEATURES

- Environmentally sealed
- Tamper indicators
- Designed for use with any Badger Meter high resolution encoder or E-Series Ultrasonic meter
- Torx seal screw security
- Acoustic "TAP" switch for viewing
- 10 year calculated battery life

Product Data Sheet

SPECIFICATIONS

Operating Temperature	−4…140° F (−20…60° C)
Encoder Compatibility	HR-E, HR-E LCD, HR-E LCD 4-20, E-Series Ultrasonic meter
Dimensions	L 4.651 in. (118 mm) × H 4.325 in. (110 mm) × W 2.017 in. (51 mm)
Weight	9 oz (255 g)
Display	LCD, 8 characters, 0.25 inches high
Battery Life	10 years, 3.6V lithium battery
Construction	High impact thermoplastic, weather and UV resistant

DIMENSIONS

NOTE: Refer to the *HR-RED Installation Data Sheet* available in the Resource Library at *www.badgermeter.com* for installation instructions.

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