

# Egain Repeater

## Egain Repeater R4

Egain Repeater R4 is a plug-and-play and highly configurable repeater for extending the range between a device and a Gateway/Hub. Repeater R4 have wM-Bus connectivity for a large number and variety of wM-Bus sensors and meters. Egain repeater is equipped with an internal high-performance antenna. The enclosure of the repeater has been designed to make it as discrete as possible.



## FIELD OF USE

Apartment and housing co-operations, older buildings, museums, historical buildings.

- Strengthen the Wireless M-Bus signal from sensors and meters
- Getting control of your building
- Metering and billings systems for energy and water consumption.

## PERFORMANCE

The R4 device uses a high-performance Wireless M-Bus receiver and transmission module that supports S1 and C1 and T1 mode. Long Range and high sensitivity are achieved by using the latest technology in radio transceivers, this is combined with superb low noise pre-amplifier. The performance in an urban environment where there are lots of radio disturbances from mobile phones, is guaranteed using high performance filtering.

## WIRELESS M-BUS

<b>Standards EN</b>	13757-3/4 OMS 4.0.2
<b>Modes</b>	C, T AND S-MODE.
<b>Standard conf.</b>	Listen in C-mode, send in S-mode
<b>Capacity</b>	360 sensors or meters
<b>Frequency</b>	868.3 AND 868.95 MHZ
<b>Sensitivity</b>	-112 DBM S, -109 DBM T/C
<b>Receiver Class</b>	2
<b>Antenna</b>	Internal

## GENERAL INFORMATION

<b>Power Supply</b>	Lithium SOCL Battery 3,6 VDC .
<b>Lifetime</b>	About 5 years
<b>Directive</b>	CE Approval 2014/53/EU Radio Equipment Directive.
<b>RoHS</b>	2011/65/EU
<b>Temperature</b>	-400 / +850
<b>Material</b>	Light grey, PC
<b>Enclosure</b>	IP67
<b>Size (WxHxD)</b>	130 x 130 x 50
<b>Weight</b>	320 g
<b>Disposal notes</b>	When disposed of, the Egain Repeater shall be recycled and not disposed with domestic waste.

## MAIN FUNCTIONS

Measurement of data in buildings, indoor temperature, humidity, energy, capacity and water usage.

- Repeats wM-Bus messages.
- Supporting C, T and S-mode.
- Capacity of 360 sensors or meters.
- Can convert the signal between different wM-Bus modes.
- Extended range with multihop support.
- Collision avoidance algorithm minimizes collisions and data repetition
- Easy installation
- Secure operation and plug and play activation via QR code
- Requires no external antennas

## MOUNTING

Wall mounted in apartment, stairway, attic or heating central. For improved range mount medium high in the building or in the heating central.