

# Egain Edge Hub

## Edge Hub 913

Edge Hub 913 is the 3rd generation of building access point with integrated antennas for GSM and wM-Bus connectivity with cloud-based services.

The Edge Hub output easily connects to any type of heating controller. It serves as a base for continuous control and allowing for optimal energy use and a perfect indoor climate with a minimal amount of energy needed. The Hub receives a unique advanced energy calculations algorithm for the specific property several times per day, always optimized and up to date.

The Hub 913 have an integrated outdoor temperature sensor for fail safe operation and wM-Bus connectivity for a large number of wM-Bus sensors and meters.



## FIELD OF USE

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

- Getting control of your building
- Increasing energy efficiency
- Optimization and remote control of heating systems

## MAIN FUNCTIONS

- Collecting data from wM-bus Sensors
- Transmission of energy balance control temperature Teq
- Measurement of outdoor temperature and forecast calibration
- Operates stand alone and connects over the GSM/3G Network
- Supports online live data
- Wide operating range and coverage without repeaters
- Secure operation and plug and play activation via QR code
- Requires no batteries and no external antennas

## WIRELESS M-BUS

<b>Standards</b>	EN 13757-3/4:2013 OMS 4.0.2
<b>Modes</b>	C, S, and T-mode.
<b>Capacity</b>	250 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>	External

## GSM

<b>Sensitivity</b>	-107 dBm
<b>GSM/3G</b>	850/900/1800/1900/2100 MHz
<b>Sim Card</b>	Embedded SIM
<b>Antenna</b>	Internal

## GENERAL

<b>Power supply</b>	230VAC 50Hz / 18VDC Adaptor
<b>Energy consumption</b>	Max 0,25W (Annually 2,2kWh / 7,9MJ)
<b>Operating Range</b>	Guaranteed - 40°C ... +125°C
<b>Temperature sensor</b>	- 50°C ... +50°C Accuracy ±0,5°C
<b>Measure interval</b>	Every 5 <sup>th</sup> minute
<b>Resolution</b>	One decimal
<b>Output</b>	Resistance 550ohm ... 9Mohm, 14Bit res Pt1000, Ni1000, Ni1000LG NTC(TAC), Honeywell, NTC 1/2,2/10/20 and many more.

<b>European directives</b>	99/05/EC and 2002/95/EC
<b>RoHS</b>	2011/65/EU
<b>CE approval</b>	EN61000-1-1, EN61000-1-3
<b>EMC</b>	EN55022(B), EN55024
<b>Safety</b>	EN60950-1
<b>Enclosure</b>	IP64 White plastic Contains no Bisphenol-A
<b>Weight</b>	300g
<b>Size (WxHxD)</b>	260 x 85 x 47 mm
<b>Disposal notes</b>	When disposed of, the Edge Hub shall be recycled and not disposed with domestic waste.

## PERFORMANCE

The Edge Hub uses a high-performance wireless M-Bus receiver module that supports C1, T1 and S1 mode. Long Range and high sensitivity is achieved by using the latest technology in radio transceivers. The performance in an urban environment where there are lots of radio disturbances from mobile phones, is guaranteed using high performance filtering.

## MOUNTING

- Mount always on exterior wall, preferred location N or NW
- Can be used with wM-Bus outdoor sensor
- Place Edge Hub unreachable from ground location, approx. 3m a above ground.
- Avoid mounting close to heating/cooling sources for example solar radiation, ventilation outlets, Air conditioning systems etc.

