

Egain Sense

Egain Sense 908/908X

Egain Sense is our wireless sensors for Temperature and Humidity. They are easily installed in the apartments as well as in the heating station.

The sensors measure and distribute information about temperature and humidity levels in all apartments, as well as flow and return-temperature in the heating system. All this with high security encrypted communication through the standardize protocol Wireless M-Bus (OMS). This is something they do several times every hour, twenty-four seven.

Having reliable data is of great importance when working with energy optimizations and improving indoor climate.

*Sense 908X has the possibility to attach external temperature probes (T1).



FIELD OF USE

Apartment, housing co-operations and commercial buildings.

- Getting control of your indoor climate
- Management of delivered indoor comfort and climate
- Remote measurement in sensitive or difficult to reach places
- Find deficiency in heating systems
- Optimization of heating systems

MAIN FUNCTIONS

- 15 min measurements of Temperature and Humidity
- Using standardized communication through Wireless M-bus (OMS)
- High security with encrypted communication
- Connects directly over wM-Bus to Edge Hub, Egain Gateway or 3rd party Gateways using S and C mode.
- Long operating range and coverage without any need of repeaters.
- Dual antenna and high output radio to maximize range.
- Secure operation and Quality controlled plug and play activation with QR code
- Maintenance free with long battery life

WIRELESS M-BUS

Standards	EN 13757-3/4:2013 OMS 4.0.2
Modes	S-mode and C-mode.
Intervals	S = 5 minutes. C = 60 seconds
Frequency	868.3 AND 868.95 MHz
RF-power	< 14 dBm
Encryption	AES128 according to mode 5
Antenna	Dual Internal Diversity

SENSOR INTERNAL

Temperature range	-40°C to +85°C
Measure interval	Every 15 th minute
Resolution	Two decimal
Accuracy	Typ. ±0,3°C (+5 °C to +60 °C)
Humidity	5%rH to 95 %rH
Accuracy	Typ. ±3% (20%- 80%RH)

SENSOR EXTERNAL

Max devices	4pc external T1
Temperature	-40°C to +125°C
Accuracy	Typ. ±0,5°C (-10 °C to +85 °C)

GENERAL

Power supply	Battery Lithium Thionyl Chloride 3,6 VDC
Type	Soldered ER14505/LS14500
Lifetime TYP	908: 14 years 908X: 1pc T1 = 12 years, 2pc T1 = 10 years 3pc T1 = 9 years, 4pc T1 = 7 years.

European directives	2014/53/EU Radio Equipment Directive.
CE approval	EN61000-1-1, EN61000-1-3
ROHS	2011/65/EU
Enclosure	IP20 White plastic Self-extinguishing ABS Contains no Bisphenol-A.
Weight	48g
Size (W x H x D)	65 x 43 x 25 mm
Disposal notes	When disposed of, the Egain 908/90X shall be recycled and not disposed with domestic waste.

PERFORMANCE

The 908/908X sensor device uses a high-performance wireless M-Bus transmitter that supports S1 and C1 mode. The fully differential antenna design gives ultra-long range in all direction, this even in this small enclosure.

MOUNTING

- Mount always on an interior wall or hallway, not on outer wall
- Place Egain sensor 908/908X 160 – 180 cm above floor
- Avoid mounting close to heating/cooling sources for example solar radiation, lamps, pipes or extensive airflow etc.
- Adhesive or fixed mounted with a screw
- Keep out of water, do not cover or use force on any part of the device.

EXTERNAL INTERFACES

The Egain Sense 908X can support 4pc of additional T1 external temperature probes. These probes can be attached on specific objects such as pipes. The data from these devices are transmitted simultaneous as the internal temperature and humidity.