

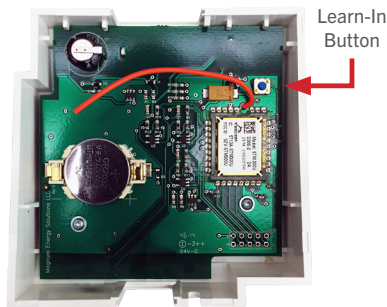
# Room Temperature / rH Sensor

## Mx-RTHS1



### Application

Solar-powered sensors, with an intelligent transmission management, are used to measure the room temperature and room rH, and transmit this information wirelessly using the non-proprietary EnOcean wireless protocol. Special indoor solar cells collect the power required for operation and data transfer from ambient light. In unlit periods, maintenance-free gold-cap capacitors continue to feed the transmitter. The wireless transmission technology gives you a great deal of freedom in choosing the installation location.



### Technical Data

Function	Temperature Sensor, Relative Humidity Sensor
Power Supply	Solar-powered via internal energy storage unit.
Interfaces	<ul style="list-style-type: none"> <li>- Wireless telegram: EnOcean wireless telegram.</li> <li>- Mx-RTHS1 - EEP A5-04-01 temperature / humidity sensor.</li> <li>- Frequency: 868 MHz, 902 MHz &amp; 928 MHz</li> <li>- Operating Range: Approx. 30 m in buildings (depending on building structure)</li> <li>- Duty Cycle: &lt; 0.4%</li> <li>- Transmission interval of 110s if there is significant change in temperature or if manually operated (Adjustable)</li> </ul>
Transmission Power	< 10 mW
Darkness Reserve	Up to 100 h via gold-cap capacitors.
Illumination Strength	Min. 150 lx, constant.
Measuring Range	0°C to 40°C
Ambient Conditions	0°C to 50°C (humidity non-condensing)
Housing	Plastic Housing, RAL9010 (pure white)
Degree of Protection	IP20
Weight	0.10 kg
Dimensions	WxHxD mm 82.5 x 82.5x 30

### Part Numbers

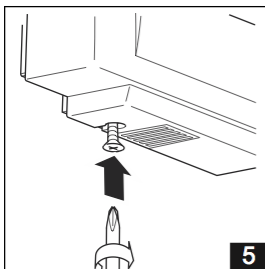
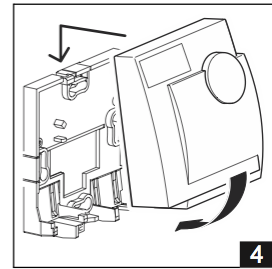
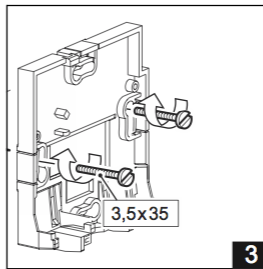
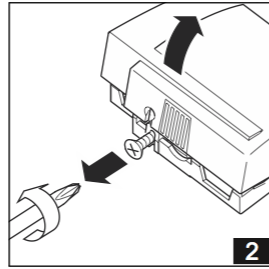
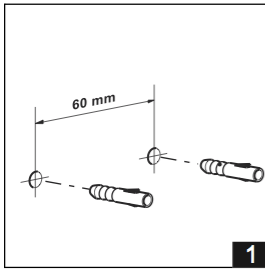
*(Frequency Dependant)*

**M9-RTHS1** (902 MHz - North America)  
**M8-RTHS1** (868 MHz - Europe and China)  
**MJ-RTHS1** (928 MHz - Japan)

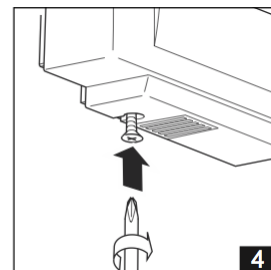
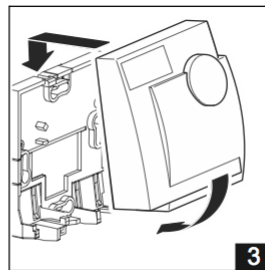
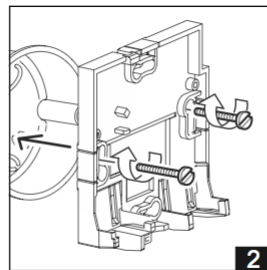
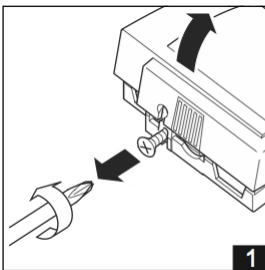
# Room Temperature / rH Sensor

## Mx-RTHS1

### Wall Mounting:



### Flush Mounting:



### Related Products:



Key Card  
Reader



Occupancy/LUX  
Combination Sensor



Mx-USR-L1  
0-10V Dimmer Relay



Window / Door  
Sensor