

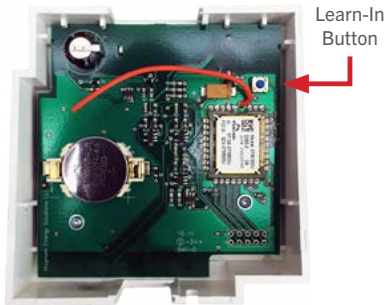
# Room Temperature / rH Sensor

## 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)

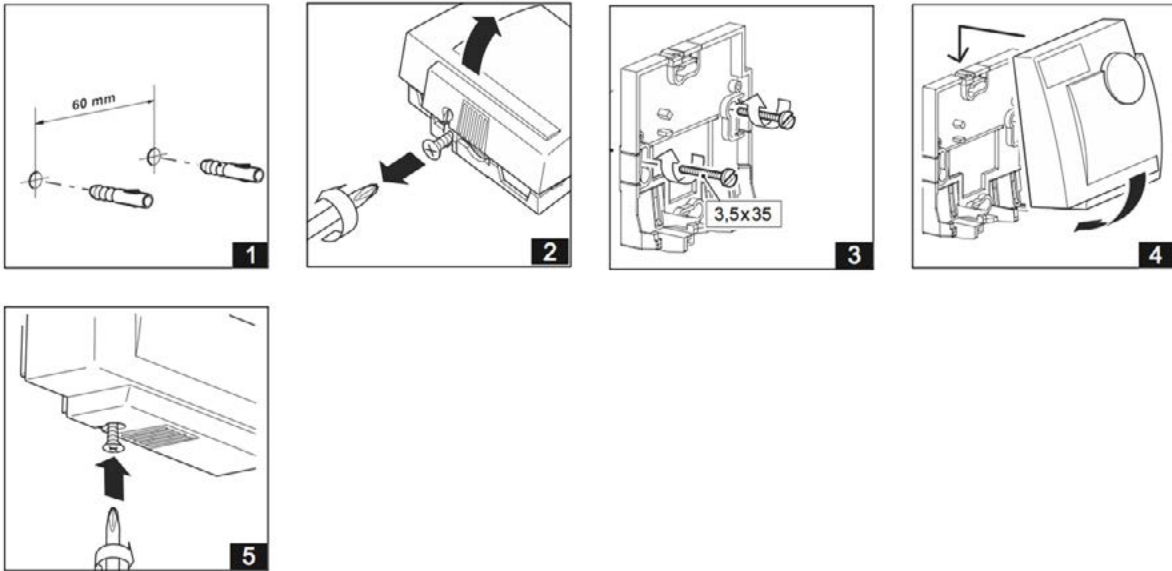


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## Wall Mounting:



## Flush Mounting:

