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

<table>
<thead>
<tr>
<th>Function</th>
<th>Temperature Sensor, Relative Humidity Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>Solar-powered via internal energy storage unit.</td>
</tr>
<tr>
<td>Interfaces</td>
<td>- Wireless telegram: EnOcean wireless telegram.</td>
</tr>
<tr>
<td></td>
<td>- Mx-RTHS1 - EEPROM A5-04-01 temperature / humidity sensor.</td>
</tr>
<tr>
<td></td>
<td>- Frequency: 868 MHz, 902 MHz &amp; 928 MHz</td>
</tr>
<tr>
<td></td>
<td>- Operating Range: Approx. 30 m in buildings (depending on building structure)</td>
</tr>
<tr>
<td></td>
<td>- Duty Cycle: &lt; 0.4%</td>
</tr>
<tr>
<td></td>
<td>- Transmission interval of 110s if there is significant change in temperature or if manually operated (Adjustable)</td>
</tr>
<tr>
<td>Transmission Power</td>
<td>&lt; 10 mW</td>
</tr>
<tr>
<td>Darkness Reserve</td>
<td>Up to 100 h via gold-cap capacitors.</td>
</tr>
<tr>
<td>Illumination Strength</td>
<td>Min. 150 lx, constant.</td>
</tr>
<tr>
<td>Measuring Range</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Ambient Conditions</td>
<td>0°C to 50°C (humidity non-condensing)</td>
</tr>
<tr>
<td>Housing</td>
<td>Plastic Housing, RAL9010 (pure white)</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Weight</td>
<td>0.10 kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD mm 82.5 x 82.5 x 30</td>
</tr>
</tbody>
</table>

Part Numbers
(Frequency Dependant)

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

Proudly Made In America
Room Temperature / rH Sensor
Mx-RTHS1

Wall Mounting:

1.  
2.  
3.  
4.  
5.  

Flush Mounting:

1.  
2.  
3.  
4.  