KNX Basic weather station

Operating instructions

Art. no. MTN663990

For your safety

**DANGER**
Risk of fatal injury due to electrical current.
All work on the device should only be carried out by skilled electrician. Observe the country-specific regulations as well as the valid KNX guidelines.

**WARNING**
Danger of burns.
Do not touch the rain sensor while it is in operation. It can become very hot.

**CAUTION**
The awning/blind could be damaged.
Awnings/blinds require some time to retract when windy. Therefore set the wind thresholds below the value specified by the awning/blind manufacturer.

**CAUTION**
The sensor can be damaged.
The wind sensor can freeze when it is windy and temperatures are considerably below the freezing point. Therefore, in addition to a wind threshold also use a temperature threshold (e.g. 0 °C).

As the rain sensor only reacts to water droplets that are directly on the sensor, some time may pass between it starting to rain and the sensor detecting the rain, during which the awning may become wet. To avoid this use other values such as low brightness and wind.

Getting to know the weather station

The weather station is a combination unit which can be used as a sensor for detecting wind, rain, brightness and temperature in small commercial properties and residential properties. These values are then evaluated in the device.

The weather station is suitable for use with the KNX bus together with the Merten product database. The measurement values for wind, temperature etc. are transmitted directly to the bus and are processed in the device.

Connections, displays and operating elements

Wall bracket
Temperature sensor
Rain sensor
Wind sensor
Light sensor

How to install the weather station

**WARNING**
Risk of fatal injury from electrical current.
The device could become damaged. Safety clearance must be guaranteed in accordance with IEC 60664-1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the KNX line.

The light sensor must be installed horizontally (light sensor on top and wind sensor underneath) near the sunshade in the sun and exposed to the wind. Shadows (from masts for example) and light reflexes must be avoided.

How to connect the weather station

1. Press the programming button.
The programming LED lights up.
2. Load the physical address and application into the device from the ETS.
The programming LED goes out.
The application has been loaded successfully, the device is operative.

How to operate the weather station

1. Fastening the weather station using a wall bracket
Wall bracket A rotated by 90°
- The wall bracket can be rotated from -5° to 180°. Wall bracket rotated by 180°
2. When set in position, fasten using screw B.

Dimensions

1. Fastening the weather station on a mast or on a corner
   - For mast and corner installation, the wall bracket is installed using a mast and corner fastening (optional) (MTN 663992).

2. Mast fastening
3. Programming LED, programming button
4. Temperature sensor

1. Connecting the weather station
2. Bus connection
3. 230 volt connection
4. Wall bracket
### Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>-20°C to +55°C</td>
</tr>
<tr>
<td>Brightness range</td>
<td>1-100,000 Lux</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230-240 V AC/50-60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 10mA for bus voltage</td>
</tr>
<tr>
<td>Mains power consumption</td>
<td>10 W with heating switched on</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP 44 in accordance with EN 60529</td>
</tr>
<tr>
<td>Mode of operation</td>
<td>RS type 1 in accordance with EN 60730-1</td>
</tr>
<tr>
<td>Protection class</td>
<td>II when installed correctly</td>
</tr>
<tr>
<td>Angle of detection</td>
<td>150°</td>
</tr>
<tr>
<td>Mast fastening</td>
<td>Dm 60-80 mm (accessory)</td>
</tr>
</tbody>
</table>

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### Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Center in your country.

[www.schneider-electric.com](http://www.schneider-electric.com)

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.