

Standard weather station

Order no.: 2150 04

**Safety instructions**

Electrical equipment must be installed and fitted by qualified electricians only.

Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

Do not operate the device in the vicinity of chimneys or other exhaust or ventilation structures.

Do not operate the device close to radio transmitters.

Choose the place of installation in such a way that the device is accessible for servicing purposes.

Do not open the sensor head.

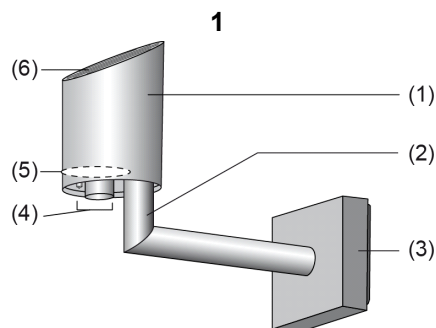
Do not make inscriptions or stick labels on the sensor head.

Clean the underside of the sensor head with a soft brush only.

These operating instructions are part of the product and must be left with the final customer.

Device layout (Fig. 1)

- (1) Sensor head
- (2) Mounting bracket
- (3) Terminal box
- (4) Temperature and wind sensors
- (5) Brightness and twilight sensors
- (6) Rain sensor

**Function****System information**

This device is a product of the KNX system and complies with KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The functionality of this device depends on the software. Detailed information on software versions and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

Planning, installation and commissioning of the unit is effected by means of KNX-certified software.

The product database, technical descriptions, conversion programs and other utilities are available in their latest version in the Internet.

Designated use

- Measurement and evaluation of weather data: wind speed, precipitation, twilight, temperature and brightness.
- Vertical mounting on the outside of buildings, preferably on roofs and at facades.

Product features

- Integrated KNX bus coupler
- Compact housing
- Low-maintenance device
- Measured-value acquisition and limit value monitoring

Information for qualified electricians**DANGER!**

**Electric shock in case of accidental contact with live parts.
Electric shocks can be fatal.**

Before working on the device, cut out the mains supply and cover up live parts in the surroundings.

Fitting and electrical connection**Installing the device**

The place of installation must be suitable for the purpose. The device must not be influenced on any side by obstacles or shadows.



- Choose the place of installation in such a way that the device remains accessible for future servicing activities.
- Direct exposure to sunlight influences the measurement of temperature.
- Installation on a mounting pole with pole-mounting set.

- Lead the wires for power supply and bus connection through one of the two cable penetrations (11) into the terminal box (3).
- Attach the bottom half of the terminal box to a house wall or mounting pole, etc. (accessory).
- Connect the supply voltage to terminal (9).
- Connect the KNX bus line to terminal (10).



The yellow/white wire pair of the KNX bus line can be used for the supply voltage. Observe the specifications for SELV voltages.

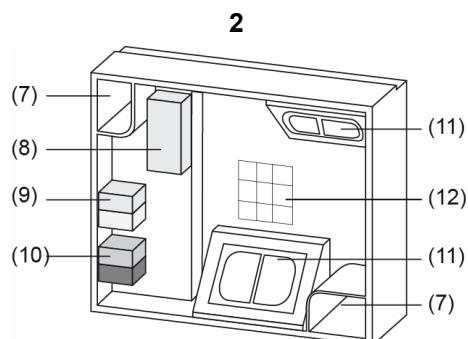
- Connect the plug of sensor head (1) to sensor socket (8) in terminal box (3).

**CAUTION!**

Risk of irreparable damage to the device.

Do not use the angle support (2) as a lever and pull downwards.

- Place the device from above onto the base of the terminal box and snap on at the bottom.



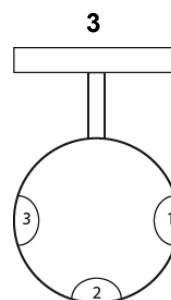
Aligning the device

- Align the sensor head with the help of a compass in such a way that the bevel points southwards.



Without proper alignment, the brightness sensors do not face the correct cardinal points. The position of the brightness sensors viewed from above is shown in Fig. 3.

In some cases it may be useful to align the device according to the prevailing local conditions, e.g. in accordance with the facades. Geographical peculiarities may equally require another kind of alignment.



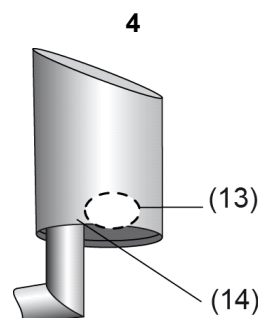
Opening the device

- Stick a screwdriver into the notch at the bottom of the terminal box and lever up the upper part of the box carefully.
- Detach the sensor plug from the sensor terminal (5).

Start-up

Putting the device into operation

- Switch on the bus voltage.
- Switch on the supply voltage.
- Place the programming magnet supplied over the integrated reed contact (13). The programming LED (14) lights up red to indicate the programming mode.
- Allocate the physical address and load the application software into the device.
- Note down the physical address on stickers inside the terminal box (12) and in the cover of the terminal box (Fig. 2).
The device is ready for operation.



Technical data

KNX medium: TP1

Start-up mode: S-Mode

KNX supply: 21...32 V DC

KNX power consumption: typically 450 mW

KNX connection: Connecting terminal

External supply

Rated voltage: AC/DC 24 V SELV

Power consumption: max. 7.5 W

Connection: Connecting terminal
yellow/white

Ambient conditions

Ambient temperature: -20 °C ... +55 °C
(no icing and no soiling)

Storage temperature: -40 °C ... +70 °C

Box		Brightness	
Type of protection:	IP 44 (position of normal use)	Cardinal points:	east, south, west
Safety class:	III	Measuring range:	approx. 1 ... 110 klx
Dimensions (L x W x H):	approx. 88 x 170 x 204 mm (incl. mounting bracket)	Spectral range:	700 ... 1050 nm
Weight:	approx. 240 g	Accuracy:	10 % (upper end of measuring range)
Sensor signals		Twilight	
Temperature		Cardinal point:	south
Measuring range:	approx. -20 ... +55 °C	Measuring range:	approx. 0 ... 674 lx
Accuracy:	± 1 K (wind speed > 0.5 m/s)	Spectral range:	700 ... 1050 nm
Wind speed		Accuracy:	10 % (upper end of measuring range)
Measuring range:	approx. 0 ... 40 m/s	Accessories	
Accuracy:	± 2 m/s	Power supply:	1024 00
Precipitation		Supplementary power supply 24 V DC:	2570 00
Measuring range:	precipitation yes / no	Mounting bracket for installation on free-standing poles:	0848 00
Sensitivity:	fine drizzle		
Shut-off delay:	adjustable		

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstrasse 12
D-42477 Radevormwald

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