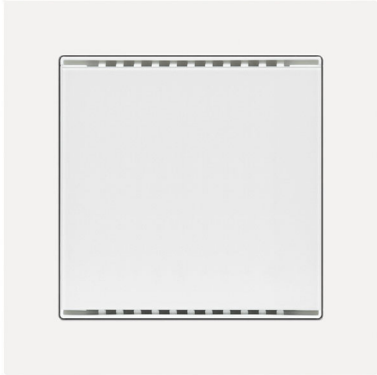


WGTH gl

Indoor Sensor

Technical specifications and installation instructions

Item number 20557



1. Description

The **Indoor Sensor WGTH gl** transfers temperature and humidity to the control system via radio. Several separate **WGTH gl** can be taught to one control system. The teaching is described in the chapter “Learn wireless connections” (manual of the control system).

The **WGTH gl** consists of the housing, the base plate and a frame. As an alternative to the supplied frame, a frame of the switch series used in the building may be used. You will additionally require a junction box according to DIN 49073 (not included in scope of delivery).

For power supply (11...28 V DC), e. g. 12 V DC can be tapped from the connection board of the control unit (multifunctional input).

Functions:

- Measurement of **temperature** and **air humidity** (relative)
- Suitable for: WS1 Color/Style, (KNX) WS1000 Color/Style/Connect, Solexa II (Temperature evaluation only)

1.0.1. Scope of delivery

- Housing
- Base plate
- Frame

You will need *in addition* (not supplied):

- Device socket according to DIN EN IEC 60670-1

1.1. Technical specifications

Housing	Real glass, plastic
Colours	White, glossy (similar to RAL 9010 pure white)
Mounting	on device socket according to DIN EN IEC 60670-1
Degree of protection	IP 20
Dimensions	Housing approx. 55 x 55 (W x H, mm), mounting depth approx. 8 mm, base plate approx. 71 x 71 (W x H, mm)
Total weight	approx. 50 g
Ambient temperature	Operating -5...+45°C, Storage -55...+90°C
Ambient air humidity	max. 95% RH, avoid bedewing
Operating voltage	11...28 V DC
Current	max. 35 mA
Data output	Wireless
Wireless frequency	868.2 MHz
Protocol	Proprietary protocol (Elsner RF)
Temperature measurement range	-5...+60°C
Humidity measurement range	0% RH ...95% RH

The product conforms with the provisions of EU guidelines.

2. Installation and commissioning



Installation, testing, operational start-up and troubleshooting should only be performed by an authorised electrician.



CAUTION! Live voltage!

There are unprotected live components inside the device.

- Inspect the device for damage before installation. Only put undamaged devices into operation.
- Comply with the locally applicable directives, regulations and provisions for electrical installation.
- Immediately take the device or system out of service and secure it against unintentional switch-on if risk-free operation is no longer guaranteed.

Use the device exclusively for building automation and observe the operating instructions. Improper use, modifications to the device or failure to observe the operating instructions will invalidate any warranty or guarantee claims. Operate the device only as a fixed-site installation, i.e. only in assembled condition and after conclusion of all installation and operational start-up tasks, and only in the surroundings designated for it. Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

2.1. Installation position

The **Indoor Sensor WGTH gl** is installed on a device socket.

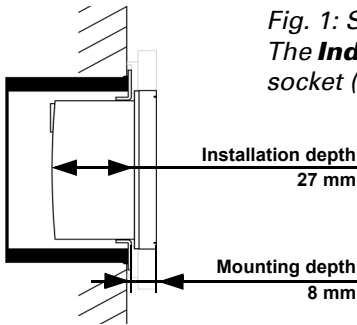


Fig. 1: Sectional drawing.
The **Indoor Sensor WGTH gl** fits into a standard socket (Ø 60 mm, depth 42 mm).



May be installed and operated in dry interior rooms only.
Avoid condensation.

When selecting an installation location, please ensure that the measurement results are affected as little as possible by external influences. Possible sources of interference include:

- Direct sunlight
- Drafts from windows and doors
- Draft from ducts which lead from other rooms or from the outside to the junction box in which the sensor is mounted
- Waste heat from the control unit (when mounted above the display)
- Warming or cooling of the building structure on which the sensor is mounted, e.g. due to sunlight, heating or cold water pipes
- Connection lines and ducts which lead from warmer or colder areas to the sensor

Temperature variations from such sources of interference must be corrected in the control unit menu in order to ensure the specified accuracy of the sensor (see manual chapter on Wireless connections > Status).

2.2. Composition

2.2.1. Housing

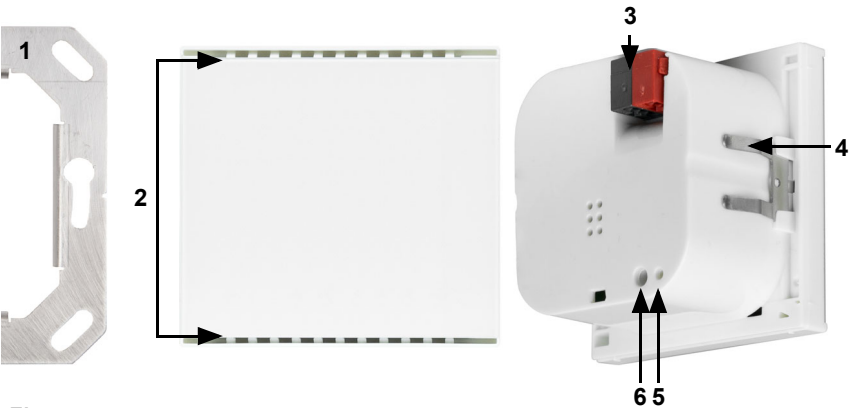


Fig. 2
1 Base plate
2 Openings for air circulation
3 Connection for power supply 11...28 V DC (polarity independent)
4 Catches
5 Programming LED (recessed)
6 Programming button (recessed) for teaching device

2.3. Assembly of the sensor

First of all fit the windproof socket with connection. Also seal inlet pipes to avoid infiltration.

Screw the base plate onto the socket and position the frame of the switching programme. Connect the power supply +/- to the connector terminals provided for this purpose on the sensor board.

Pin the housing with the notches on to the metal frame, so that device and frame are fixed. The device has to be inserted such that the connecting terminal faces up (see Fig. 2). This is necessary for a correct temperature measurement.

3. Commissioning

Never expose the device to water (e.g. rain) or dust. This can damage the electronics. You must not exceed a relative humidity of 95%. Avoid condensation.

4. Disposal

After use, the device must be disposed of in accordance with the legal regulations. Do not dispose of it with the household waste!