



Room Temperature Sensor

QAA64

Vandalproof though concealed mounting

Use

Acquisition of room temperature in spaces where the detector needs to be protected against damage or destruction by people.
Such spaces are public buildings like schools, administrative buildings, multi-purpose halls, etc.

Ordering

Indicate device name and type designation on order:
Room temperature sensor **QAA64**

Equipment combinations

All systems and devices that are capable of acquiring and handling the sensor's analog passive LG-Ni 1000 output signal.

Function

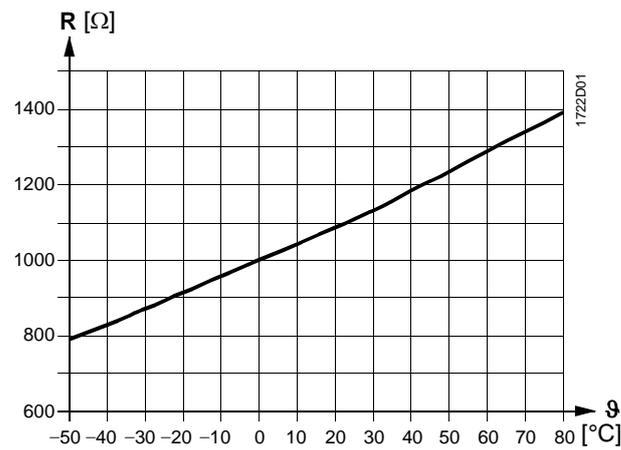
The sensor acquires the air temperature via its sensing element whose resistance changes as a function of the temperature.

The signal is delivered to a suitable controller for further handling.

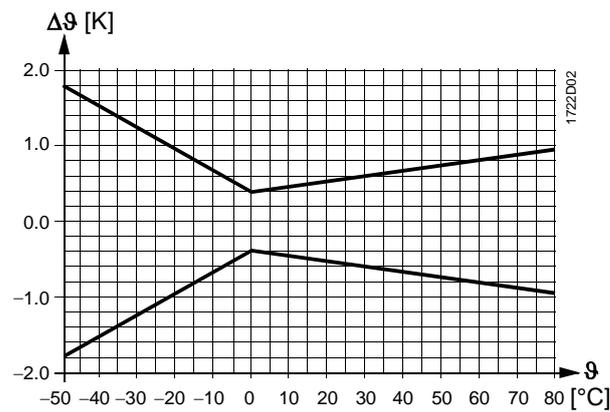
Sensing element

Characteristic:

LG-Ni 1000



Accuracy:



Legend

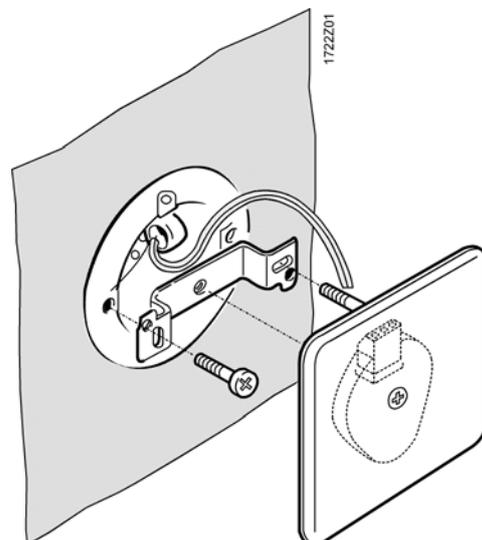
R Resistance value in Ohm
 θ Temperature in degrees Celsius
 $\Delta\theta$ Temperature differential in Kelvin

Mechanical design

The QAA64 has been designed specifically for installation on recessed conduit boxes having a fixing hole circle dia. of 60 or 69 mm.

The unit consists of a plastic cover and a fixing bracket made of metal. The rear of the cover carries the connecting terminal strip and a measuring element LG-Ni 1000.

The fixing bracket is fitted inside the recessed conduit box. A captive screw is used to secure the cover to the bracket.



Engineering notes

For the permissible lengths of lines and measured value errors, refer to "Basic System Data" of the respective control system.

If, for some reason, the detector cannot be mounted in a location where it can correctly acquire the room temperature, a resistor can be mounted to correct or adjust the measurement. For this purpose, the detector has an auxiliary terminal (for details, contact SBT service personnel).

Fitting and installation notes

| | |
|---------------------------|---|
| Location | On an inner wall of the space to be heated, if possible on the wall opposite the heating unit. Not in recesses or shelves, not above or near heat sources. The end of the conduit at the detector must be sealed to prevent false measurements due to draughts through the conduit. The connecting wires are interchangeable. |
| Installation instructions | Installation instructions are supplied with the unit. |

Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

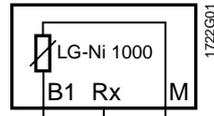
Technical data

| | | |
|--------------------------|--------------------------------|--|
| Functional data | Measuring range | 0...50 °C |
| | Sensing element | LG-Ni 1000 |
| | Time constant | 6.5 min (depending on air movement and thermal coupling to the wall) |
| | Measuring accuracy | refer to "Function" |
| | Type of measurement and output | passive |
| Degree of protection | Protection class | III to EN 60730-1 |
| | Protection degree of housing | IP40 according to EN 60529 |
| Electrical connections | Connecting terminals for | 2 x 1.5 mm ² or 1 x 2.5 mm ² |
| | Perm. cable lengths | refer to "Engineering notes" |
| Directives and Standards | Product standard | EN 60730-1 |
| | | Automatic electrical controls for household and similar use |
| Environmental conditions | Operation | IEC 721-3-3 |
| | Climatic conditions | class 3K5 |
| | Temperature | 0...50 °C |
| | Humidity | 0...95 % r. h. (noncondensing) |
| | Mechanical conditions | class 3M2 |
| | Transport | IEC 721-3-2 |
| | Climatic conditions | class 2K3 |
| | Temperature | -25...+65 °C |
| | Humidity | <95 % r. h. |
| | Mechanical conditions | class 2M2 |

| | | |
|-----------------------------|---|---|
| Environmental compatibility | The product environmental declaration CE1E1701 ¹⁾ contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal). | |
| Materials and colors | Cover | insulating plastic, RAL 9010 (pure white) |
| | Fixing bracket | Steel, nickel-plated |
| | Packaging | grey cardboard |
| | Sensor (complete assembly) | silicone-free |
| Weight | Incl. packaging | approx. 0.06 kg |

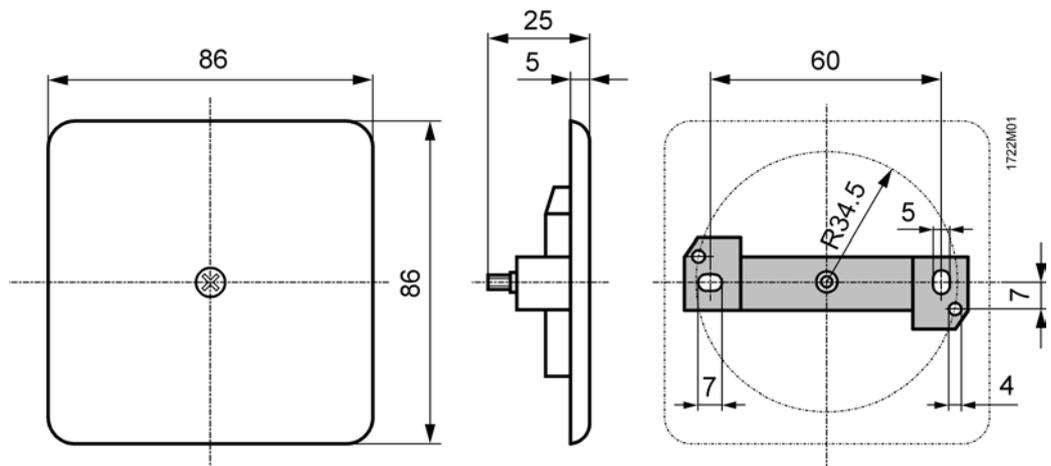
*) The documents can be downloaded from <http://siemens.com/bt/download>.

Internal diagram



- B1 Room temperature measuring signal
- M Measuring neutral
- Rx Auxiliary terminal

Dimensions



Dimensions in mm