

LCN-TSA

Outdoor Temperature sensor for LCN



Description:

The LCN-TSA is an especially small, high precision, digital temperature sensor for outdoors.

With its own processor it records almost noise free measurements and sends them over the I-Port connector to the connected LCN module.

The LCN-TSA can operate in parallel with all other modules connected to the I-port connector on all intelligent LCN modules (UPP, UPS, Up24, SH+, HU, LD, DI12).

The module gives the possibility of two continuous action control circuits plus 5 thresholds which can also be used to control.

Measured values can be exchanged between LCN modules in service and differences calculated.

Field of Application:

The temperature sensor is used for determining the outdoor temperature. Through connection of further sensors on the LCN Bus, amongst other things, an energy saving and user friendly single room heating regulation system can be realised including control of the ventilator.

Additionally allows for the calculation of temperature differences inside/outside (e.g. for the passive nocturnal cooling and conservatory control).

Hardware equipment:

LCN-TSA:

Temperature sensor, encapsulated

Wall or roof mounted with PVC clip shell

2m connecting cable with plug to I-Port connector

LCN-IV:

Cable with plug for the I-Port connection to the intelligent bus module

2 free I-Port sockets for connection of further peripherals

Screw terminals for cable up to 0,8mm Ø

Note:

The assembly position and location influence the recorded values: Airstreams, erected height, heat sources (heat radiated from lighting) are to be considered.

If the supply cable is to be extended outdoors then a terminal connector in an IP65 protected case is planned.

The supply cable can be extended up to 100m.

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Dimensions:

Sensor LCN-TSA (L x \varnothing): 65 mm x 15 mm \varnothing
 LCN-IV (L x B x H): 22 mm x 12 mm x 13 mm
 Supply cable: 2 m



Technical Data:

Sensor data:

Mesured range: -30°C bis +80°C
 Resolution: 0,1°C
 Accuracy: +15°C to +30°C: typical 0,3°C
 -40°C to +70°C: typical 0,6°C
 -40°C to +120°C: max. 2°C

Supply cable: 2 m, LiYCY, multi core

General Data:

Operating temperature: -30°C bis +80°C
 Enviromental conditions: Stationary installation according to VDE632, VDE637

Protection:

Sensor LCN-TSA: IP 65
 LCN-IV: IP 20

Assembly:

LCN-TSA:
 Roof or wall mount using cable clip

LCN-IV:
 Decentral Installation

Schaltplan

