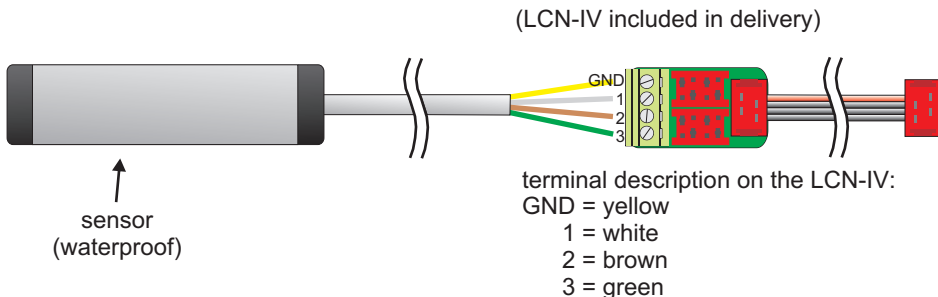**Outdoor temperature sensor for LCN**

The LCN-TSA is a temperature sensor for outdoor use.
It can be connected to the I-connections on all LCN modules.

Included in delivery
LCN-TSA, -IV, fixing clamps, screws & dowels.

(LCN-IV included in delivery)

GND
1
2
3

terminal description on the LCN-IV:
GND = yellow
1 = white
2 = brown
3 = green

sensor
(waterproof)

Connection

With a 2 metre long connecting cable to connect to the I-ports on the LCN-UPP, -UPS, -SH, -SHS and LCN-HU with firmware stand 090201 (Jan. 1999) or later. The cable to the LCN module can be extended up to 50m by using 2 LCN-IV´s (only use shielded cable) - see also in the internet "TDi connections from Periphery".

How it functions

After connecting, the LCN-TSA will be detected automatically and its measured values registered in the controller variable (R1-Var) of the module - you can check the value in the status window in the LCN-PRO.

Alterations to the light values, can be done either with thresholds or regulators.

Note

• When using modules before serial number 0A05.. (up to May/2000), the measured value appears in the T-variable (T-Var). With serial numbers before 090119 (up to Jan./1999) please define the I-port of the LCN module with "IR-remote control reception" in the parameterization.

• The following peripheries can be used parallel to the LCN-TSA on the I-port:

LCN-BT4H, -RR, -GRT, -ULT, -GT2, -GT4D, -GT10D, -GT3L but no more than 5
Periphery devices at the same time on the I-port.
Important: Operating the LCN-IV as pulse counter / counter input is not possible!

•The LCN-TSA is delivered with a fixing clamp, which can be installed for example on a
wall, ceiling etc. The sensor is then snapped into the fixing clamp.

• Do not install temperature sensors near heat or cold sources like, radiators, lamps and
and air conditioning. Avoid heating up caused by direct sunlight. If possible do not insert
into a closed casing, so the **LCN-TSA** has direct contact to the environment.

• Because of ist large mass, the outdoor temperature sensor reacts slow to temperature
changes. The time constant depends on the installation and the environmental
conditions.

Technical data

Connection

power supply:	not needed (over I-connection)
power consumption:	<0,1W

LCN-connection: connecting cable to connect an LCN-IV
fine wire 4x 0,14mm^2 with end sleeves, tinned, length: 2m

measurement range: -20°C to +85°C

resolution: 0,1°C

accuracy: typ. 0,3°C from +15°C to +30°C
typ. 0,6°C from - 20°C to +85°C,
max. 2°C over the total measurement range

Installation

opertating temperature:	-20°C to +85°C
environmental conditions:	Use as stationary installation according to VDE632, VDE637
protection art:	LCN-TSA IP 65
	LCN-IV IP20 when installing in flush mounted box
casing dimensions:	65mm x 15mm Ø

Technical information and images are non binding. Changes are reserved.
Technical hotline: +49 5066 998844 or www.LCN.de

4 LCN-TSA D04/2013   ISSENDORFF KG, 31157 Sarstedt