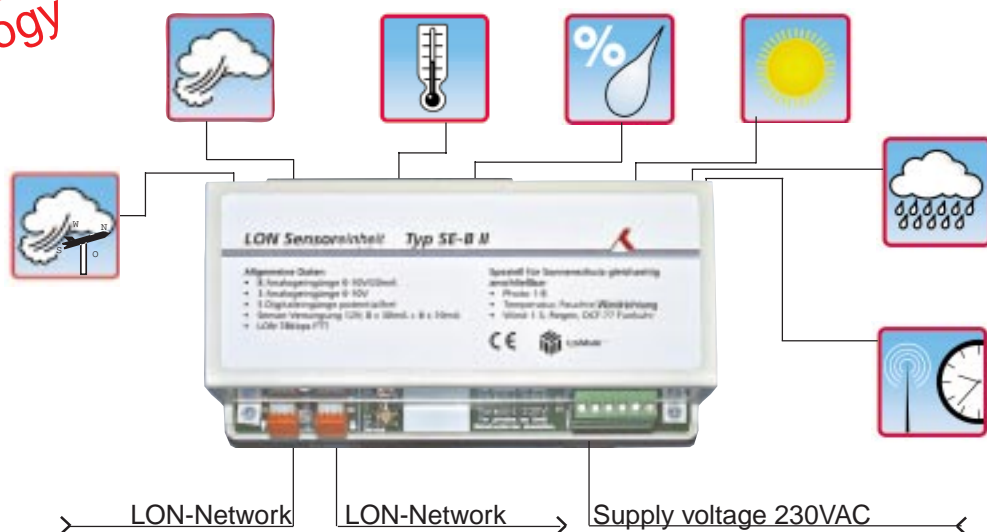


Product Information
LONWORKS®-Technology

REKO®
electronic



LON Sensorunit Type SE-B II

Functions

- Detection of meteorological measured quantities for building automation
- Provision of meteorological measured quantities for sun protection
- Radio clock (DCF77)
- Sun position calculation

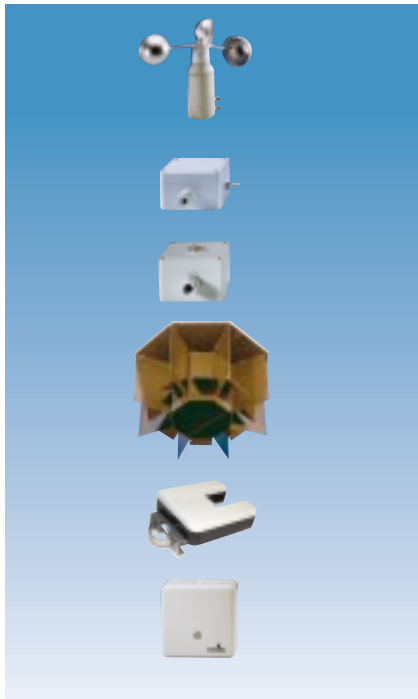
Available Sensors:

- Up to 8 photo sensors (for 8 directions or facades)
- Precipitation
- Temperature
- Relative humidity
- Wind direction
- Up to 3 wind sensors
- DCF77 radio clock receiver

Technische Daten:

| | |
|-----------------------|------------------|
| <i>Power Supply:</i> | |
| Supply voltage: | 230VAC/50Hz |
| Power consumption: | 7VA |
| <i>Bus Interface:</i> | |
| Transceiver | FTT-10A |
| <i>Inputs:</i> | |
| Analog | 8 x 0-10V/0-20mA |
| Analog | 3 x 0-10V |
| Digital | 5 x |
| <i>Mounting type:</i> | |
| DIN rail/IP20 | |
| <i>Maße:</i> | |
| LxBxH | 110x190x58 |
| Art.-No. | 1002 333 |

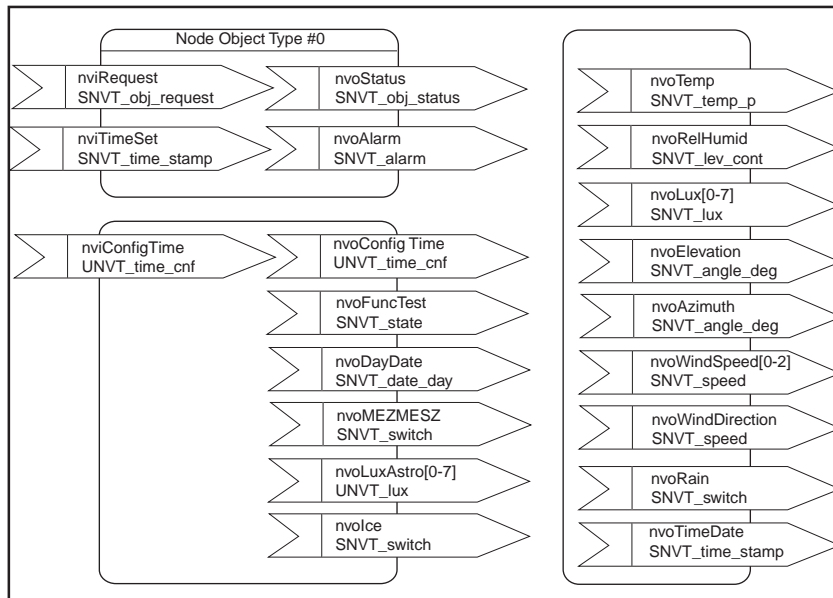
The trend in building automation is increasingly towards distributed information and control networks. We take this development into account by using the LONWORKS®-technology for your sun protection control. The SE-BII allows the connections of conventional meteorological sensors. It provides sensor data in the form of network variables on the LON-network. Sensors for temperature, relative humidity, luminance, wind speed, wind direction and rain can be connected. In addition it is possible to connect a DCF77 radio clock receiver in order to realize a real-time clock. The SE-BII calculates the position of the sun in dependence of the time and its geographic position. The application can be loaded via the LON-network.



Sensors (example):

| | |
|---|------------------|
| Wind (heated) | Part.No. 628 003 |
| Power supply unit (not displayed) | Part.No. 629 065 |
| Temperature | |
| external | Part.No. 628 029 |
| Photo | Part.No. 623 002 |
| Photo-sensor housing 8-fold | Part.No. 317 042 |
| Precipitation (heated) | Part.No. 623 045 |
| Power supply unit (not displayed) | Part.No. 629 065 |
| Radio clock receiver AP | Part.No. 628 130 |
| Upright stand pipe 151 (not displayed) | Part.No. 632 003 |

Partial view of the interface:



The adjacent figure shows the available network variables. The existing configuration variables as well as the individual sensor objects are not shown in the figure. The Node object provides variables for sampling the status as well as an alarm variable. There are two variables available for configuring the transmitting time of the individual objects (nviConfigTime; nvoConfigTime). Various meteorological data such as the temperature (nvoTemp), relative humidity (nvoRelHumid), wind speed (nvoWindSpeed), wind direction (nvoWindDirection), rain (nvoRain), as well as ice (nvolce), as a logic operation of the temperature and precipitation,

are made available. The time information (nvoTimeDate) is determined by evaluating the DCF77 radio clock signal, from which the position of the sun in the form of the elevation and azimuth can be determined in combination with the configurable geographic position. In addition the weekday (nvoDayDate) as well as information on the summer or winter time (nvoMEZMEZ) are provided as a variable. Two different network variables are available for the luminance (nvoLux and nvoLuxAstro including elevation angle and azimuth).

We are always pleased to help you!

REKO electronic GmbH
Dillberg 33
D-97828 Marktheidenfeld

Tel: 09391/20 970
Fax: 09391/20 979
internet: www.reko-electronic.de
e-mail: info@reko-electronic.de