

**Image**



**Product description**

LON sensor unit for connecting weather sensors with analogue output signals to a LonWorks network.

The sensor unit incorporates 8 analogue inputs for 0-10V signals and interfaces directly with ombra W7-C compact sensor and ombra W1-D wind direction sensor.

Thus the following sensor data are available in the LON network as functional objects:

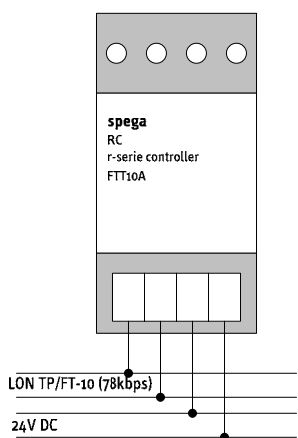
- Wind speed
- Wind direction
- Illumination (East, South, West)
- Temperature
- Relative humidity
- Rain

Additionally the software application provides 4 protection controller objects to prevent sunblinds from damages through effects of the weather.

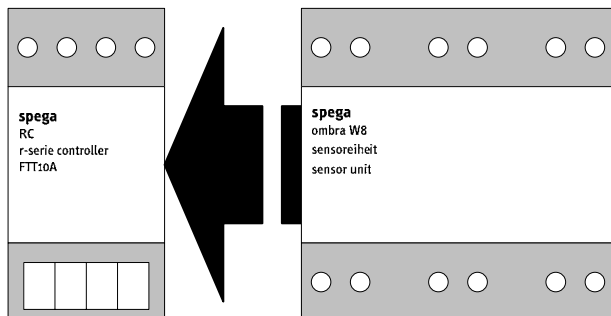
A powerful LNS-Plug-In is available for convenient setup and commissioning.

**Terminal diagram**

*Bus connection*



*Connection of controller*

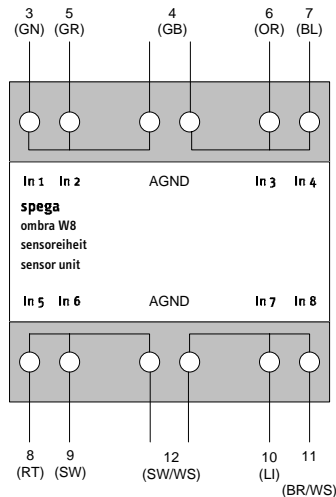


**spega Order information**

Order number	Description
111 288 C	<i>ombra W8</i> LON Sensor unit
410 207	<i>ombra W7-C</i> Combined weather sensor
410 204	<i>ombra W1-D</i> Wind direction sensor
950 205	<i>ombra W1-G</i> Terminalbox for ombra W8

## I/O Terminal connection

(Example for ombra W7-C)




### Legend:

GN = green	GB = yellow
GR = grey	OR = orange
BL = blue	RT = red
SW = black	LI = purple
BR/WS = brown/white	SW/WS = black/white

## Mounting

- 1 DIN rail mounting according to EN50022, 6 pitch width
- 2 Connect or disconnect devices only when de-energised. The input module must be operated in conjunction with a spega e.control controller only.

 **Installation and mounting of electrical devices has to be done by skilled persons.**

 **Applicable national and international standards, directions, prescriptions and guidelines have to be observed during engineering and installation of electric systems.**

 **Device specifications stated in this document have to be obeyed.**

## Technical data

### Power supply

operating voltage	24V DC (18...27V DC)
current consumption	30mA max.

### Network

type	TP/FT-10 (78kbps)
transceiver	FTT

### Inputs/Outputs

analogue inputs	8 analogue Inputs 0-10V
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### Terminals

network	pluggable 4-pin clamp-type terminal for Ø 0,6 - 1,0mm (sol.)
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### inputs

12 screw-type terminals for max. Ø 4mm<sup>2</sup>

### Operation

service pin	sends Neuron-ID when pressed
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### Indicators

Service LED	ON: device applicationless; BLINKING: device unconfigured
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### Enclosure

protection degree	IP 20 (DIN 40050 / IEC 144)
metrics	85 (45) x 105 x 60 (H x W x D)
	6 pitch
mounting	DIN rail according to EN 50022

### Environment

operating temperature	-5°C ... +45°C
storage temperature	-25°C ... +55°C
transport temperature	-25°C ... +70°C
rel. humidity	5% ...93%
operational height	max. 2000 m above sea level

### Safety

potential separation	SELV (EN 60 950)
protection class	I (IEC 536 / VDE 106 Teil 1)

### Standards

product safety	according to EN 50 090-2-2
EMC	according to EN 50 090-2-2
certification	CE