Technical Datasheet

ombra W2
Weather sensor
Order No.: 411 202 xx

Image

Product description

The weather sensor ombra W2 records the outside brightness and outside temperature. The functions of the weather sensor can be expanded further by adding the ombra W1-Wh wind sensor (Order No. 410 203) or, alternatively, the ombra W1-R rain sensor (Order No. 410 202). It can be used several times in a building to record several different-facing sections of the facade.

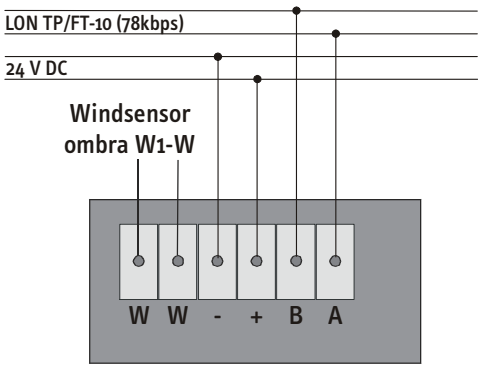
The actual measured values are made available to all connected devices for further processing via the LONWORKS® network.

Additionally, the device is equipped with sunblind protection controllers which, depending on the wind, rain and outside temperature, ensure that the blinds are moved to the protection position in the case of stormy or frosty weather.

In the case of strong sunlight, 4 antiglare controllers move the blinds into a defined antiglare position. Delays in activation and deactivation as well as the lux value are parameterisable.

Terminal diagram

Bus connection



spega Order information

Order number	Description
411 202 C	*ombra W2* Weather sensor
410 203	*ombra W1-Wh* Wind sensor for ombra W2
410 202	*ombra W1-R* Rain sensor for ombra W2

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Assembly instructions

1 The weather sensor is assembled with the help of the angle bracket on the external facade or on a mast.

2 The device must be installed in such a way that it allows easy recording of the measured values.

3 During assembly, observe all measures to protect the device against overvoltage.

Electrical devices must be assembled and installed by trained personnel only.

Please observe local standards, guidelines and regulations when planning and installing electrical devices.

The device specifications given in this document must be adhered to.

Operation of the device is determined by the application program. Only programs which have been approved by spega should be used for the device.

The installer should ensure that the application program and relevant parameterisation correspond with the wiring and intended use of the device.

Operation

Commissioning:

Please note that for commissioning purposes, a service pushbutton and a service LED have been installed under the transparent faceplate. The neuron ID is sent by pressing the button. A label with the neuron ID (in barcode and written form) is also stuck to the housing, allowing for separate localised connection.

Notes

Any parties responsible for project planning and commissioning must be familiar with LONWORKS® technology.

Technical data

Power supply	
Operating voltage	24V DC (15...27V DC)
Current input	typ. 10mA (240mW) max. 20mA (480mW)
Network	
Type of network	TP/FT-10 (78kbps)
Type of transceiver	FTT
Measuring ranges	
External luminosity	1.... 65500 lux, error < 2%
External temperature	-20°... +50°C, error < 0,25° C
Inputs/outputs	
Wind sensor	1 pulse input, floating for: - wind sensor ombra W1-Wh or - rain sensor ombra W1-R
Connections	
Network	4 x 1-pin plug-in terminal connection for Ø 0,5 – 1,5mm² (sol./stranded)
Wind-/rain sensor	2 x 1-pin plug-in terminal connection for 0,5 - 1,5mm² (sol./stranded)
Control elements	
Service pushbuttons	Sends Neuron ID when pushed
Other	---
Display elements	
Service LED	ON: no application loaded; FLASHING: module unconfigured
Other	---
Housing	
Type of protection	IP 54 (DIN 40050 / IEC 144)
Dimensions	93 x 72 x 57 (H x W x D)
Type/location of installation	Mast or wall mounting with enclosed mounting angle
Ambient conditions	
Operating temperature	-25℃ ... +50℃
Storage temperature	-25℃ ... +55℃
Transportation temperature	-25℃ ... +70℃
Rel. humidity	5% ...93% (without condensation)
Installation height	up to 2000 m above sea level
Safety	
Electrical isolation	SELV (EN 60 950)
Class of protection	I (IEC 536 / VDE 106 part 1)
Standards/guidelines	
Device safety	acc. to EN 50 090-2-2
Immunity	acc. to EN 50 090-2-2
Certification	CE

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