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DATA SHEET

UV7+UV7-VV

Produal

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UV7-LY WIND SENSOR

UV7-LY ultrasonic wind sensor is designed for building automation needs of the wind direction and speed measurement.

Thanks to ultrasonic based measurement the sensor has no moving parts. Four independent sensors are measuring wind independently and therefore allow excellent measurement sensitivity and reliability of data.

The sensor settings such as the angle correction and the time constant can be changed using a computer via an RS232 interface (in UV7 transmitter module).

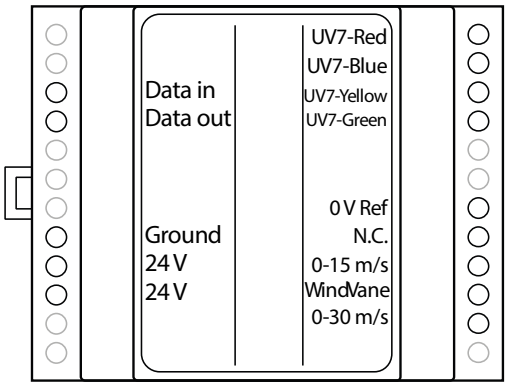


Assembly

Determine a place free from obstacles to the wind. Avoid as possible the nearness of cables susceptible to make radio interferences of strong levels.

NOTE: The rivet in the sensor must be oriented on south (and the fixing plate oriented on the east-west axis).

Wiring (transmitter module)



LED ”Data in” flashing: data transfer OK.
LED “Data out” flashing: microprocessor is working properly.

Technical data:

supply (sensor)	12 Vdc (10…14 V), 12 mA
supply (transmitter module)	24 Vac/dc ±20 % 0.75 W
ranges	
wind direction (output 2)	0…359 °
wind speed (output 3 or 1)	0…15 m/s or 0…30 m/s
accuracy	
wind direction	±1 °
wind speed	±0.05 m/s
wind sensor sensibility	0.13 m/s
maximum wind speed	40 m/s
output 1	0.36…10 Vdc
output 2	0.48…10 Vdc
output 3	0.36…10 Vdc
communication	RS232 NMEA0183®
cable length	25 m
diameter of mast	Ø 25…50 mm
ambient temperature	-15…+55 °C
housing	IP67
time constant	1, 2, 4, 8, 16 s
transmitter module assembly	35 mm DIN rail

Order guide:

Model	Product no.	Description
UV7-LY	1136033	Wind sensor with module

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

Information is subject to change without prior notice.