

WIND SPEED AND DIRECTION SENSOR

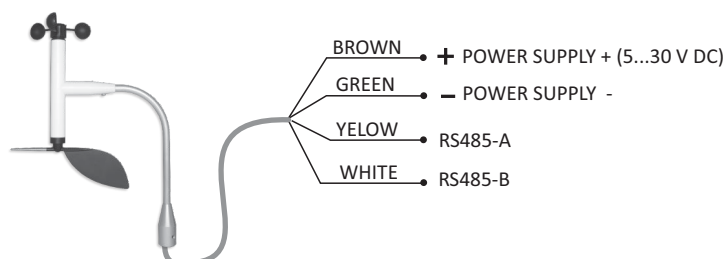
Type: WSD 200/MODBUS



FEATURES

- RS485 Modbus communication
- instant, average and maximum wind speed
- temperature
- wind tunnel tested
- shock proof, user replaceable anemometer cups and vane
- replaceable sensor bearings
- low starting speed
- linear output curve - linearization of cups rotation and starting threshold compensation
- optional full ceramic ball bearings for low starting speed and long bearings life

WIRING



ORDERING INFORMATION

MODELS

- WSD200/MODBUS
- WSD200/MODBUS/CER

OPTIONS

- Individually wind tunnel tested sensors with calibration certificate
- Measnet calibration certificate
- various cable length
- full ceramic ball bearings

SPARE PARTS

- 1 Spare anemometer cups
- 2 Spare wind vane
- 3 WS sensor head with bearings
- 4 WD sensor head with bearings



TECHNICAL DATA

Wind speed measurement range:	0,7 ... 50,0 m/s
Wind direction measurement range:	0 ... 359°, no blank sector
Resolution, wind speed:	0,1 m/s
Resolution, wind direction:	1°
Measurement principle:	magnetic
Operating voltage:	5...30 V DC
Power consumption:	10 mA
Output:	RS485 up to 38400 Baud
Protocol type:	MODBUS RTU
Averaging period, current wind speed:	1 s
Averaging period, current wind direction:	2 s
Averaging period, average wind speed&direction:	10 s, 60 s
Accuracy, wind speed:	+/- 0,15 m/s or 2,5% (up to 40 m/s)
Accuracy, wind direction:	+/- 2,5°
Reverse polarity protection:	YES
Transient voltage protection:	YES
Temperature operating range:	-30 ... +55 °C
Relative humidity:	0 ... 100%
Cable:	Liyy 4 x 0,25 mm ² ; 10 m standard
Bearings (replaceable):	precision stainless steel ball bearings (WSD200/MODBUS) Option full ceramic ball bearings (WSD200/MODBUS/CER)
Material - housing:	AL / UV resistant plastic
- cups (replaceable):	PA (Polyamide)
Dimensions:	Height 250 mm, overall vane diameter 220 mm, cup to cup 120 mm
Weight:	250 g, without cable
Mounting:	the sensor mounts on a pipe with ø 20 mm outside diameter

Subject to technical modification without notice