

WIND SPEED AND DIRECTION SENSOR

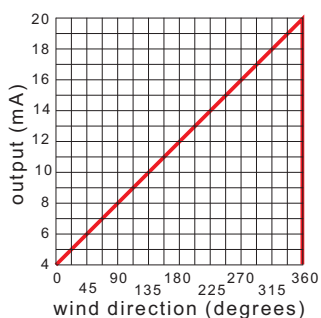
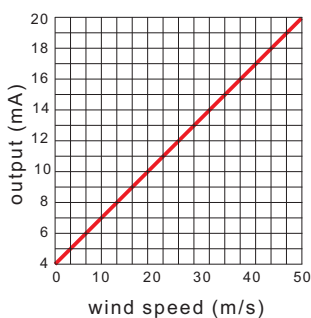
Type: WSD 200/4-20mA



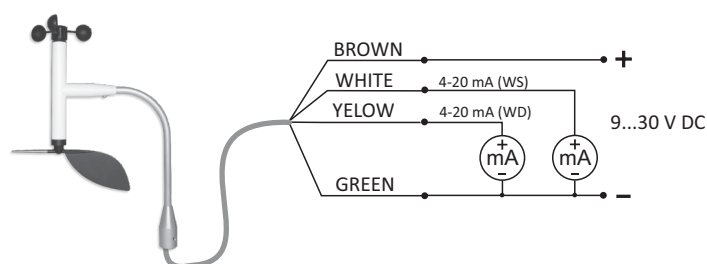
FEATURES

- 4-20 mA outputs
- 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

OUTPUTS



WIRING



ORDERING INFORMATION

MODELS

- WSD200/4-20mA
- WSD200/4-20mA/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:	9...30 V DC
Signal output, wind speed:	4...20 mA, 4 mA = 0 m/s; 20 mA = 50 m/s
Signal output, wind direction:	4...20 mA, 4 mA = 0°; 20 mA = 359°
Output update:	4/sec
Output averaging period, wind speed:	1 s
Output averaging period, wind direction:	2 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 (WSD200/4-20mA) Option full ceramic ball bearings (WSD200/4-20mA/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