**WIND SPEED SENSOR**

**WSS 100/4-20 mA**

- low starting speed
- wind tunnel tested
- field replaceable bearings
- replaceable anemometer cups
- full ceramic ball bearings (option) for low starting speed and long bearings life time
- linear output curve - linearization of cups rotation and starting threshold compensation

### WIRING

- WHITE
- 4 ... 20 mA
- BROWN
- POWER SUPPLY 9 ... 30 V DC
- mA

### DIMENSIONS

![Diagram](image)

- 122
- 125

### OUTPUT

![Graph](image)

- wind speed (m/s)
- output (mA)

0 4 8 12 16 20

0 10 20 30 40 50
**TECHNICAL DATA**

Wind speed measurement range: 0.7 ... 50.0 m/s
Starting threshold: 0.6 m/s
Operating voltage: 9...30 V DC
Signal output: 4...20 mA, 2 wire
- 4 mA = 0 m/s;
- 20 mA = 50 m/s
Output update: 4/sec
Output averaging period: 1 s
Accuracy: +/- 0.15 m/s or 2.5% (up to 40 m/s)
Resolution: 0.1 m/s
Loop resistance: max. 600Ω /24V
Reverse polarity protection: YES
Transient voltage protection: YES
Temperature operating range: -30 ... +55 °C
Relative humidity: 0 ... 100%
Accuracy: +/- 0.15 m/s or 2.5% (up to 40 m/s)
Rotation sensor type: hall effect sensor
Cable: Liyy 2 x 0.34 mm²; 10 m standard
Bearings (replaceable): 2 x precision stainless steel ball bearings (WSS100/4-20mA)
2 x full ceramic Ball bearings (WSS100/4-20mA/CER)
Material - housing: anodized aluminum
- cups (replaceable): PA (Polyamide)
Weight: 120 g, without cable
Mounting: the sensor mounts on a pipe with

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**OPTIONS**

- Individually wind tunnel tested sensors with calibration certificate
- Measnet calibration certificate
- various cable length

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**SPARE PARTS**

1. Spare anemometer cups
2. WS sensor head with bearings
3. WS sensor head with ceramic bearings

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**MODELS**

- WSS100/4-20mA
- WSS100/4-20mA/CER

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Subject to technical modification without notice