



NAVIS

Long Range Wireless Anemometer

WSM W301

FEATURES

- instant wind data – data transmission every 2 seconds
- easy installation without running cables
- long range (up to 400 m or 4 km with directional yagi antenna)
- up to 4 years sensor battery life
- 3 programable alarm relay outputs
- no threat of lightning damage
- no photovoltaic to position or clean
- durable and shock proof anemometer cups
- magnetic mounting of sensor (accessories)
- self-leveling sensor mounting (accessories)
- magnetic mounting of receiver (accessories)
- optional individual calibration certificate

APPLICATIONS

- crane applications
 - mobile cranes
 - tower cranes
 - bridge cranes
- lift applications



Range up
to 400 m





SENSOR MOUNTING ACCESSORIES:

- self-leveling mounting assembly
- magnetic self leveling mounting assembly
- magnetic mounting assembly

SPARE PARTS:

- spare anemometer rotor
- spare sensor



ACCESSORIES:

- receiver magnetic mounting assembly
- external antenna with 4 m cable, magnetic mounting
- YAGI antenna with 3 m cable

OPTIONS:

- wind tunnel certificate version available
- 50 Ohm sensor output for connecting the external antenna (SMA connector)
- additional receiver unit



NAVIS

TECHNICAL DATA

Measurement range:	0,6 - 50,0 m/s
Unit of measurement:	m/s, km/h, knots, mph
Averaging period:	selectable 2 s, 10 s, 30 s
Transmission distance:	up to 400 m up to 1km with directional yagi antenna with 2 yagi antenna: 5-8 x nominal range
Operating voltage:	12 - 24 V DC
Power consumption:	max. 50 mA
Operating Frequency:	868 MHz, optionally 908 Mhz
Temperature operating range:	-25 ... +60 °C
Outputs:	3x relay, contact rating 2 A/12 V
Signal output (type WSM W301/4-20mA):	4...20 mA, (not isolated, common ground with supply) 4 mA = 0 m/s 20 mA = 50 m/s
Antenna input (receiver):	50 Ohm, SMA connector
Data transmission rate:	every 2 sec
Resolution:	0,1 m/s
Accuracy:	+/- 3 %
Battery - sensor (changeable):	3,6 V AA Lithium battery, enclosed
Battery life:	up to 5 years
Sensor bearings:	2 x precision stainless steel Ball bearing
Material:	- sensor housing: AL/PVC - cups (replaceable): PA (NYLON) - casing receiver: ABS
Dimensions - receiver:	150 x 80 x 55 mm
Weight - receiver:	260 g
Dimensions - sensor:	Height 210 mm, overall diameter cup to cup 120 mm
Weight - sensor:	140 g
Mounting:	sensor mounts on a pipe with ø20 mm diameter

MODELS

- WSM W301: 3 x relay outputs
- WSM W301/4-20mA: 3 x relay outputs + 4-20 mA output