

# Wireless Wheel Speed Sensors

## (RLWSSENSOR)



The VBOX Wireless Wheel Speed Sensors deliver precise, real-time 100 Hz wheel speed measurements for a variety of vehicle testing applications.

Designed for straightforward installation, these compact sensors mount directly onto the wheel, eliminating the need for traditional stator rods and encoders, and significantly reducing setup time.

Built for durability, the sensors are water- and weatherproof, making them ideal for a wide range of testing conditions, including aquaplaning scenarios. Speed data is output via CAN, ensuring seamless integration with VBOX data loggers or existing data acquisition systems without requiring frequency-based measurement translation.



## Features

- 100 Hz capture of wheel speed and temperature data
- Compact design - Mounts securely onto the wheel, eliminating the need for stator rods
- Waterproof and durable sensors for use in harsh conditions
- Built-in thermocouple input for brake disc temperature measurement
- Over 72 hours of battery life
- One receiver connects simultaneously to up to four sensors

## Specifications

Sensor	
Maximum RPM	±3000 rpm
RPM Accuracy	±0.5% FS
Temperature Measurement Range	-200°C to 1200°C
Temperature Accuracy	±0.05% FS
IP Rating	IP67
Operating Temperature	-20°C to +60°C
Battery Life	20 Hours at -20°C/72 Hours at 25°C
Weight	640 g
Dimension	Ø142 mm
Wireless Frequency	2.4 GHz

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Receiver	
Power Supply	9-36 V DC
Output	CAN 2.0b at 500kbit/s
Operating temperature	-20°C to +60°C
Weight	472 g
Dimension	125 mm x 119 mm x 30 mm
Wireless Frequency	2.4 GHz

## Package Contents

### *RLWSSENSOR-4 – Wheel Speed Sensor System for 4 wheels*

Description	Product Code
4x Wheel Speed Sensor	WS-SEN
4x Sensor Fixture kit inc. 17mm, 19mm and 21mm Wheel nut clamps	FIX-WS
1x Data Receiver	WS-REC
4x Wheel Speed Sensor Chargers	WS-CHAR
4x Receive Antenna	WS-ANT
1x Magnetic power Switch	WS-MAGSW
1x 5W Lemo to 5W Lemo power/CAN cable	WS-POW/CAN
Transport Case	WS-CASE

### *RLWSSENSOR-2 – Wheel Speed Sensor System for 2 wheels*

Description	Product Code
2x Wheel Speed Sensor	WS-SEN
2x Sensor Fixture kit inc. 17mm, 19mm and 21mm Wheel nut clamps	FIX-WS
1x Data Receiver	WS-REC
2x Wheel Speed Sensor Chargers	WS-CHAR
2x Receive Antenna	WS-ANT
1x Magnetic power Switch	WS-MAGSW
1x 5W Lemo to 5W Lemo power/CAN cable	WS-POW/CAN
Transport Case	WS-CASE