



High-Speed Tyre Pressure Sensor (HS-TTPMS)

A wireless High-Speed Tyre Pressure Sensor specifically designed to measure Contact Patch Load Variation (CPLV) using a high-speed, high-accuracy, ultra-sensitive pressure transducer. The wheel-mounted sensor measures tyre pressure at 180Hz with 0.1mBar resolution, thus capable of measuring CPLV on track, where it matters. The receiver outputs the data using CAN 2.0A protocol.



SPECIFICATIONS – TTPMS SENSOR

Pressure, Range (Gauge)	0 to 5000 mBar
Pressure, Resolution	0.1 mBar
Pressure, FS Accuracy (typ)	±10 mBar
Internal Temperature, Range	-40 to 150°C
Internal Temperature, Resolution	0.1°C
Internal Temperature, FS Accuracy	±1.0°C
Sampling Frequency at Speed	180Hz
Operating Temperature Range*	0 to 135°C
Battery Life, Typical	50 track hours
RF Frequency, Center	868 MHz
RF Output Power	0.2 mW
Wireless Range, Open Space	> 100m

*Will survive brief temperature excursions < 150°C

MECHANICAL SPECS – SENSOR

Weight	42 ± 1g
Material	7075-T6
Max. Centrifugal Accel.	2200G (SF = 3)
L x W x H (max)	73.5 x 37.5 x 19.5 mm
Protection Rating	IP61

SETTINGS

CAN ID's, Team Codes, Bit Rates ect. Can be changed with the Brightwater configuration tool. DBC Files are available for default setup. Contact Spilba for details.

SPECIFICATIONS – RECEIVER

Voltage Input	5 to 16 V
Supply Current	30 mA
Temperature Range	-20 to 85°C
Max No. of Sensors	120 (30 per corner)
RF Frequency	868 MHz
Sensitivity (typ)	110dBm



MECHANICAL SPECS – RECEIVER

Weight	18 ± 1g
Material	6061-T6
L x W x H (max)	50.5 x 35.5 x 8 mm
Protection Rating	IP65