

## **Automotive Pressure & Temperature Transmitter VS50**





Measures and transmits tyre pressure and temperature, providing continuous monitoring of tyres during test, development and race conditions. Operates with TMS AS Receiver. Installs in a standard 11.3mm or 8.8mm valve hole compliant with ETRTO standards. Transmitted data is encrypted and carries a unique serial number ensuring reliable error free data transmission. Each sensor is individually calibrated to a traceable standard, resulting in high accuracy across the operating temperature range (-20 to +150°C).

Pressure measuring range	02.5bar (038psi)
	Optional 3.5bar, 5.0bar, 10bar
Measuring resolution	2.5mbar (0.04psi)
Pressure accuracy	+/- 0.5%
Temperature measuring range	0150°C (32302°F)
Resolution	1°C
Housing	Moulded plastic
Weight	23g (excluding valve stem)
Transmit rate	Adaptive (see text) up to 1Hz
Battery	Lithium Thionyl cell
Battery Life	>1,500,000 Transmissions
Radio Frequency	433.92MHz
RF Emission category	MPT1340, ETS 300-220
Typical TX range	20m (free space)

## **Operating modes**

- Active mode When pressure is above 0.17bar (2.5psi) and temperature is above active threshold (typically 30°C). Transmit interval 1sec. (2 sec option, extended battery life)
- Power save mode When pressure is above 0.17bar (2.5psi) and temperature is below active threshold. Transmit interval 30sec. If pressure change ≥25mbar additional transmissions made.
- Sleep Mode If pressure is below 0.17bar (2.5psi) the sensor makes no transmissions.
- Expected battery life:>1,800,000 transmissions (approx. 750hrs active, 9,000hrs power save, 15,000hrs sleep mode). Battery replacement can be carried out by factory or authorised service agent

Ordering Information:	Order Code 301200301 301200302 301210102	<b>Description</b> TMS Valve sensor VS50, 11.3mm valve stem TMS Valve sensor VS50, 8.8mm valve stem Battery & Antenna change
Request further information:	Installation drawing VS50 ETRTO valve hole drawing TMS AS Receiver data sheet	