

## Motorcycle Pressure & Temperature Transmitter VS8V1



Measures and transmits tyre pressure and temperature, provides continuous monitoring of motorcycle tyres during test, practice and race conditions. Operates with TMS AS Receiver. Installs in a standard 8.8mm valve hole with O-ring seal as a valve replacement, accepts standard valve core. All valve threads conform to ISO 4570:2002

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 very high accuracy across the wide operating temperature range (145°C).

Pressure measuring range	0..2.5bar (0..38psi)
Measuring resolution	12mbar (0.18psi)
Pressure accuracy	+/- 1%
Temperature measuring range	10..145°C (50..293°F)
Resolution	1°C
Housing	Titanium
Weight	29g
Transmit rate	Adaptive (see text) up to 2Hz
Battery	High-temp 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 40°C). Transmit interval 1sec. (0.5 sec optional)
- Power save mode - When pressure is above 0.17bar (2.5psi) and temperature is below active threshold. Transmit interval 30sec (60 sec optional). If pressure change  $\geq 25$ mbar additional transmissions made.
- Sleep Mode - If pressure is below 0.17bar (2.5psi) the sensor makes no transmissions.
- Expected battery life:>1,500,000 transmissions (approx. 500hrs active, 6,000hrs power save, 15,000hrs sleep mode). Battery replacement can be carried out by factory or authorised service agent

Ordering Information:	<b>Order Code</b>	<b>Description</b>
	301200202	TMS valve sensor 8V1, Ti
	301210101	Battery & Antenna change

Further information: Installation drawing VS8V1  
TMS AS Receiver data sheet