

Pressure & Temperature Transmitter Stud mount



Measures and transmits tyre pressure and temperature, provides continuous monitoring of tyres during test, practice and race conditions. Operates with TMS AS Receiver. Installs in a 3/8" (9.5mm) fixing with a Dowty seal and K-nut. This sensor is compatible with the wheel hole used for the PI Research tyre sensor, widely used in Champ Car & IRL.

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 150°C.

Pressure measuring range	0..2.5bar* (0..38psi)*
Measuring resolution	2.5mbar (0.04psi)
Pressure accuracy	+/- 0.5%
Temperature measuring range	10..150°C (50..302°F)
Resolution	1°C
Housing	Titanium
Weight	26g
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 35°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 ≥ 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:	Order Code	Description
	300200141	3/8" stud sensor, Ti
	301210101	Battery & Antenna change
	* other ranges available 3.5bar, 5bar, 10bar	

Further information: Installation drawing VS8V1
TMS AS Receiver data sheet