



PRODUCT SPECIFICATION			
PART No.:	TIL-2		
DESCRIPTION	TPMS Internal Light Sensor - Gen2		
DOCUMENT No.:	SP-TIL-2-A	ISSUE:	A

PRODUCT INTRODUCTION

This document details the technical specification for the following product: **TIL-2 (TPMS Internal Light Sensor – Gen2)**. This product is designed for internal use of large and small vehicle tyres, reading pressures of 0PSI to 116PSI. The **TIL-2** is designed with all of the Wheely-Safe design principles in mind (robust, sealed, small and light weight). The sensor will auto-calibrate to the pressure, auto-pair with the vehicle receiver, then transmit the pressure and temperature data from the tyre. Increasing sending frequency with worsening tyre conditions.

PRODUCT APPEARANCE AND DIMENSIONS

Orientation Top	Orientation Side	Dimensional
		

TECHNICAL SPECIFICATIONS

General Specification	
Product	TIL-2 (TPMS Internal Light Sensor – Gen2)
HF Frequency	433.92 MHz
Frequency Stability	≤±20KHz
Modulation Frequency	9.6 KHz
Modulation Type	FSK
Operation Voltage	2.5-3.0 V
Operating Temperature	-40°C~120°C
Storage Temperature	-40°C~125°C
Ingress Protection Rating	IP69
Weight	12.93g±10g
Dimensions	69 x 24.3 x 14.8mm
High frequency power	≤5dBm
Operating current	< 2μA
Standby current	< 2μA
Pressure accuracy	±0.1bar(1.5PSI)
Temperature accuracy	±3°C



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Company	Sign	Company	Sign
Wheely Safe	<i>G Broadfield</i>	Autotech	<i>S Chen</i>