

| BLUETOOTH TPMS

INTELLIGENT TIRE SOLUTION

Sensata's Bluetooth enabled Valve Mounted sensor has been developed to address the market's shift towards smarter, connected tires. Bluetooth's ability to communicate bi-directionally will enable new features while aligning with emerging OEM wireless receiver strategies.



Features

- Robust, proven design leverages experience from delivering over 500M TPMS sensors in the field
- Available in both Clamp-In and Snap-In Configurations, addressing a variety of vehicle speeds
- Delivers same pressure, temperature, and auto-location capabilities as UHF parts delivered to market today
- Capable of bi-directional wireless communication
- Compatible with BLE v5.1
- Programmable with Tire Details or new Advanced Features
- Optimized for long battery life

Benefits

- Allows for Over the Air Updates (OTA) to address issues in the field or to install additional features without your customers having to go to the shop
- Facilitates robust cybersecurity implementations to help minimize threats to you and your customers
- Enables new features such as Enhanced Tire Fill Assist, allowing you to use your mobile device to display real-time pressure when inflating tires
- Can leverage existing BLE receiver infrastructure being introduced to support cell phones as smart keys, removing UHF receivers and reducing total system cost



SPECIFICATIONS

		SNAP IN	CLAMP IN
Pressure Range		0 – 800kPa *	
Pressure Accuracy		+/- 7kPa (0°C to 70°C), +/- 10kPa (-40°C to 0°C, 70°C to 125°C)	
Temperature Range (Excursion)		-40°C to +100°C (120°C) *	
Temperature Accuracy		+/- 2°C (-10°C to 80°C), +/- 3°C (-40°C to -10°C, 80°C to 120°C)	
Acceleration Measurement		Contact Sensata for More Details	
Max Speed		250kph (155mph)	350kph (215mph)
Acceleration Performance	Low Speed Valve	500G @ 55-80°C for 52 hrs	N/A
	High Speed Valve	1200 @ 55-80°C for 52 hrs	2200G @ 85°C for 20hrs
Mass		30g	< 30g
Valve Angle		20° or 25°	5° to 40°
Battery Life* *use case dependent		10 years	
RF Communication		Compatible with BLE v5.1	

* Contact Sensata to discuss potential needs for expanded capability

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