

## | TPMS SERIES

### INTELLIGENT TIRE SOLUTION

Sensata's intelligent Valve Mounted sensor is a new solution developed to address the market's shift towards smarter and connected tires. Designed to be equipped with Bluetooth® wireless technology it has the ability to communicate bi-directionally which enables 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
- 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 low energy wireless receiver infrastructure being introduced to support cell phones as smart keys, removing UHF receivers and reducing total system cost
- Compatible with Bluetooth® v5.1-v5.3



# SPECIFICATIONS

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

\* Contact Sensata to discuss potential needs for expanded capability

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