

## | TIRE TREAD DEPTH MONITOR (TDM)

### INTELLIGENT TIRE SOLUTION

As the Automotive market moves through several market disruptions, including Electrification and Autonomy, one of the few things that won't change is the need for tires. Ensuring that those tires are in good health will be critical to safety, efficiency, and vehicle uptime. Sensata's Tread Depth Monitor, powered by NIRA Dynamics, will deliver the necessary insights to enable vehicle manufacturers and their customers to accurately track and react to their tires wear.



### Features

- +/- 1mm accuracy on tread depth
- Software-based solution paired with existing TPM Sensors enabling easy vehicle integration
- Developed for Light-duty Passenger Cars and Trucks
- Compatible with a wide variety of tire brands and models
- Can be paired with Tire RFID to enable robust tracking of tire tread depth even through annual winter/summer tire swaps and rotations

### Benefits

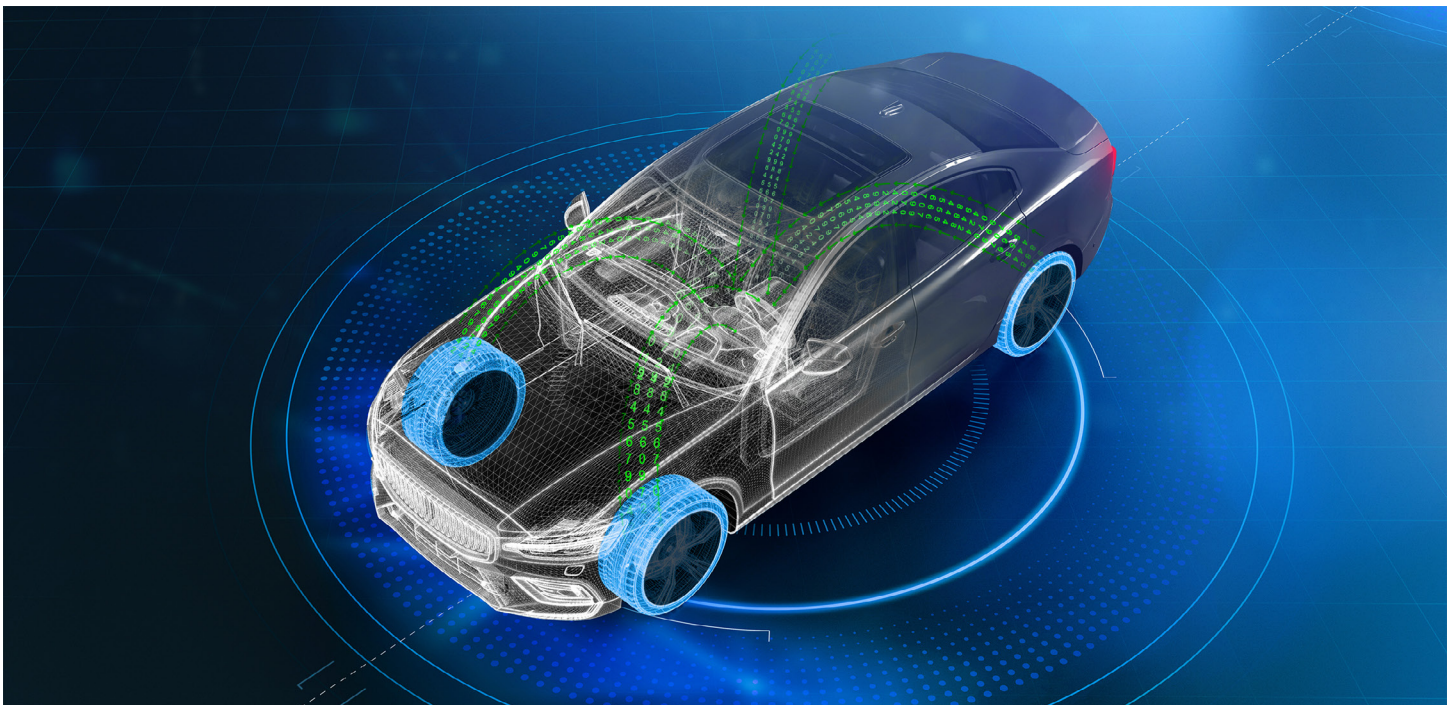
- Improved vehicle safety, ADAS, and handling performance as the vehicle can adjust to the current condition of tires
- Accurately inform customers of their current tire health, allowing them to schedule maintenance at their convenience
- With increased vehicle connectivity, Vehicle OEM's can monitor tire health and send proactive alerts for servicing
- Supports future BEV maintenance strategies as scheduling shifts away from the oil change to tire maintenance
- Enables Autonomous Vehicles and Commercial vehicle fleets to report tire health back to the fleet manager ensuring maximum uptime



# SPECIFICATIONS

Designed to be Vehicle and Tire Agnostic

<b>Applicable Vehicles</b>	Passenger Car, Light Truck/Van	
<b>Applicable Tires</b>	All (Summer, Winter and All Season Tires)	
<b>Accuracy</b>	± 1mm	
<b>Operating Conditions</b>	<b>Weather Conditions</b>	All (Dry, Wet, Snow, Ice)
	<b>Speed Range</b>	40-140kph / 25-87mph
	<b>Tire Temperature</b>	-40°C to +120°C
	<b>Tire Pressure</b>	± 20% placard pressure
	<b>Road Roughness</b>	IRI < 650 in/mi
	<b>Trunk Load Changes</b>	<400kg



Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at [www.sensata.com](http://www.sensata.com) SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

## CONTACT US

### Regional head offices:

#### United States of America

Sensata Technologies

Attleboro, MA

Phone: 508-236-3800

E-mail: [support@sensata.com](mailto:support@sensata.com)

#### Netherlands

Sensata Technologies Holland

B.V.

Hengelo

Phone: +31 74 357 8000

E-mail: [support@sensata.com](mailto:support@sensata.com)

#### China

Sensata Technologies China

Co., Ltd.

Shanghai

Phone: +8621 2306 1500

E-mail: [support@sensata.com](mailto:support@sensata.com)