

POWERTRAIN SENSORS



Sensata
Technologies

TRANSMISSION

The World Depends on Sensors and Controls



**More than a supplier –
a partner.**

Satisfaction. Much more than just a word for Sensata: it is the objective of every step we take. Our customers and their needs are central to every consideration.

The fast adaptations of customer wishes by direct communication with one of our specialists in the field or in engineering are part of our daily work. Business-to-business processes form the basis for individual optimized solutions. An optimal solution is for us always a cost-effective solution. We never lose sight of costs no matter what we are considering. Does this sound intriguing? Then contact us at www.sensata.com.

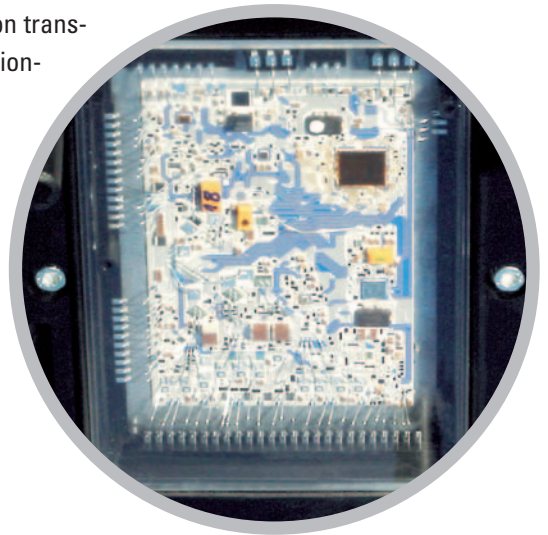
Sensata Technologies: about us.

Sensata Technologies provides leaders in the global automotive, appliance, aircraft, industrial, and HVAC markets with sensing and protection solutions. Our mission is to improve safety, efficiency, and environment protection for millions of people every day. Headquartered in Attleboro, Massachusetts, Sensata Technologies has nine technology and manufacturing centers in eight countries, and sales offices throughout the world.

SENSATA TRANSMISSION TECHNOLOGY

Advanced Control Strategies

Fuel-economy requirements and the desire for more comfort in car-driving led to the need for new Powertrain concepts. The demand for advanced transmissions is increasing and new solutions are developed like Double-Clutch Transmissions, Automated Manual Transmissions, Continuously Variable Transmissions and 6, 7 and 8 steps planetary Automatic Transmissions. During the last decade, the evolution in electronic control units and sensing-function capabilities has accelerated the industrialization of these new-generation transmission concepts. Advanced Transmission-Control Units require accurate sensing solutions with a wide variety of integration possibilities, regardless of the environment.



Sensata Technologies is the market leader in pressure controls for transmission-control units.

Sensata. The solution provider.

The fragmented transmission market requires multiple sensor solutions. For multiple-application areas, for example, sensors are located near the microcontroller in a dry environment suitable for highly automated TCU manufacturing processes, or they are integrated deep into the hydraulic part of the transmission, where they are exposed to the common and newly developed transmission fluids on the market. Typical transmission-pressure sensor functions are clutch control, line-pressure control, and belt-pressure control. Sensata Technologies is the No. 1 pressure-sensor supplier for this emerging, dynamic market.



Knowing from experience. Our pressure sensors.

Sensata Technologies' pressure sensors for transmissions, based on its proven capacitive-ceramic technology pressure sensors, known as Automotive Pressure Transducers (APT), have been on the market for many years. Key application requirements like high accuracy, good repeatability, multiple packaging, robust, and, last but not least, cost-effective solutions have been addressed by Sensata Technologies' design and process experts. Our large product portfolio with a variety of mechanical and electrical connections creates a broad range of innovative combination possibilities in order to comply with new applications requirements.

Besides pressure sensors Sensata Technologies also excels in position sensors, complementary to our strong pressure sensor market share in transmissions.



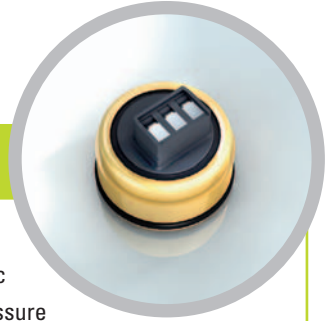
Everything you need. Our pressure sensors portfolio.

Sensata Technologies delivers pressure sensors for DCT, AMT, CVT, and AT applications. Besides pressure-sensing solutions, Sensata Technologies also sells Transmission-Range Sensors and has the capability to integrate Speed Sensors. Working together with our customers in a business-to-business environment, we have launched various unique sensing concepts with breakthroughs in size, cost, and robustness, compatible with the latest transmission-design requirements.



DRY INTEGRATED TCU SENSOR: CVT AND DCT

This sensor is currently delivered to TIER 1 suppliers in Europe, where the focus is on sensor integration and high-volume automatic TCU assembly processes. This sensor can serve an operating pressure between 10 and 80 bars. Please contact the office in your region for detailed specifications (details on back page).



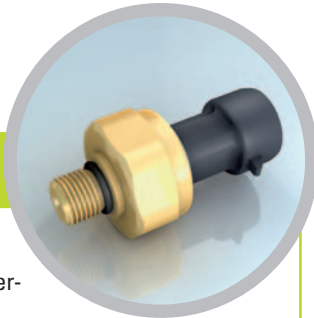
SUBMERSIBLE SENSORS: CVT, DCT, AND AT

For customers who choose to locate the pressure sensor outside the TCU, Sensata Technologies has developed submersible solutions. These sensors withstand the harsh environments in transmission fluids.



EXTERNAL MOUNTED SENSOR: AMT

Externally mounted sensors are robust enough to withstand under-hood environments. Sensata Technologies offers a wide range of common automotive connectors, such as Packard, MQS, RD, Kostal, and AMP.



Sensata Technologies solutions: accuracy, repeatability, robustness against fluids, and application extremes.





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