

## **Mexico Pressure Sensor - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-07-01 | 120 pages | Mordor Intelligence

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### **Report description:**

Mexico Pressure Sensor Market Analysis

The Mexico pressure sensors market size is valued at USD 333.45 million in 2025 and is forecast to reach USD 497.46 million by 2030, reflecting an 8.33% CAGR during 2025-2030. The upward trajectory mirrors the country's position as Latin America's most competitive manufacturing economy, with manufacturing contributing 18% of national GDP in 2024. Mandatory tire-pressure monitoring, healthcare digitization, and Industry 4.0 adoption underpin sustained demand, while the nation's integration in North American semiconductor supply chains reduces structural risk. Automotive applications dominate spend, yet medical, optical, and differential sensing technologies record the fastest growth as Mexico pressure sensors market participants diversify into precision healthcare, building automation, and offshore energy. Central Mexico leads volumes, Southern Mexico and the Yucatan Peninsula provide the highest growth curve, and established multinationals compete alongside regional MEMS specialists in a moderately fragmented field.

Mexico Pressure Sensor Market Trends and Insights

Automotive and Healthcare Production Expansion

Mexico pressure sensors market demand rises as engine-management, exhaust control, and TPMS roll into every locally built vehicle; at the same time, oxygen concentrators and respiratory monitors require higher-accuracy pressure chips for compliance with COFEPRIS labeling standard NOM-137-SSA1-2024. EV battery packs introduce new cooling and safety loops, adding

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incremental sensor nodes while nearshoring relocates North American Tier-1 suppliers to Central and Northern clusters. The parallel boom in medical device exports multiplies use cases—from blood pressure monitors to infusion pumps—further reinforcing sensor volumes. Capacity expansion in Sonora and Nuevo Leon reduces lead times for local OEMs, and cross-licensing agreements with US fabs speed knowledge transfer.

#### Accelerating MEMS/NEMS Adoption

A regional ecosystem anchored in Jalisco funnels venture funding, university talent, and Bosch's expanded R&D footprint into MEMS prototypes and small-batch runs. Mexico pressure sensors market participants align with micro-foundry partners to convert legacy piezoresistive designs into wafer-level packages that cut cost per die. Projects financed by the Secretariat of Energy prove MEMS down-hole gauges viable for shale well profiling, broadening the technology's TAM into oil and gas. Cooperative agreements with Guadalajara universities streamline material characterisation, shortening time-to-market for next-generation devices.

#### High Unit Cost of Precision Sensors

Certification under Mexico's Quality Infrastructure Law elevates CapEx as manufacturers pay for NOM testing, metrology services, and periodic audits. Procurement teams in Chiapas citrus plants often postpone upgrades when ROI falls below internal hurdle rates, limiting Mexico pressure sensors market penetration outside premium tiers. Suppliers counter with localized assembly in Queretaro that reduces import duties and with value-engineered SKUs targeting  $\pm 1\%$  FS accuracy instead of  $\pm 0.1\%$  in cost-sensitive lines.

Other drivers and restraints analyzed in the detailed report include:

Industry 4.0-Driven Factory Automation / Mandatory TPMS Under NOM-194-SCFI-2015 / Low-Price Asian Imports Intensifying Competition /

For complete list of drivers and restraints, kindly check the Table Of Contents.

#### Segment Analysis

Automotive applications account for 38.2% of Mexico pressure sensors market share in 2024, underscoring the country's status as a regional vehicle-production powerhouse. Engine control, TPMS, and emissions subsystems together shape baseline demand. Mexico pressure sensors market size for medical devices is projected to expand at a 9.40% CAGR as tele-med and in-hospital diagnostic equipment proliferate under COFEPRIS oversight. Industrial automation sequences drive consistent replacement of obsolete pneumatic monitors, and smart-home gadgets enlarge the consumer slice by embedding miniaturized gauges in HVAC controllers and air purifiers.

High-growth verticals benefit from value pools beyond unit shipments. Medical-device OEMs require traceability and MDR-style documentation, prompting bundled offerings with digital calibration certificates. In automotive, the EV transition adds battery safety circuits that need absolute micro-barometric sensors, increasing BOM value per unit. Offshore operators widen the industrial envelope, procuring sapphire-diaphragm assemblies rated for 15,000 psi. Collectively, these vectors reinforce the diversified resilience of the Mexico pressure sensors market.

MEMS holds 42.3% share of the Mexico pressure sensors market size in 2024 as die-level integration reduces package footprint and cost while sustaining automotive-grade repeatability. Optical technology registers the fastest 8.80% CAGR because non-contact interrogation thrives in corrosive offshore and sterile bioprocess settings. Piezoresistive chips retain incumbency in most gauge and absolute variants, whereas capacitive structures capture niches demanding sub-Pa resolution.

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Mexico pressure sensors market suppliers leverage Jalisco's micro-electronics corridor to co-develop ASICs that process MEMS outputs in-package, cutting board real estate for vehicle ECUs. Optical OEMs partner with Veracruz shipyards to trial fiber Bragg pressure arrays in subsea risers. Resonant sensing, albeit niche, enters barometric drones where frequency drift offers self-calibration advantages. Technology diversification enables portfolio risk management ahead of the next semiconductor cycle.

Mexico Pressure Sensors Market is Segmented by Application (Automotive, Medical, Consumer Electronics, Industrial, Aerospace and Defence, Food and Beverage, HVAC), Technology (Piezoresistive, Capacitive, Resonant, Optical, MEMS), Pressure Type (Absolute, Gauge, Differential, Vacuum), Output Type (Analog, Digital), and by Geographhy. The Market Forecasts are Provided in Terms of Value (USD).

List of Companies Covered in this Report:

ABB Ltd / All Sensors Corp. / Bosch Sensortec GmbH / Endress+Hauser AG / GMS Instruments BV / Honeywell International Inc. / Invensys Ltd / Kistler Group / Rockwell Automation Inc. / Rosemount Inc. (Emerson Electric) / Sensata Technologies Inc. / Siemens AG / Yokogawa Electric Corp. / TE Connectivity / Dwyer Instruments Inc. / NXP Semiconductors N.V. / Murata Manufacturing Co., Ltd. / Infineon Technologies AG / STMicroelectronics N.V. / Omron Corporation / Schneider Electric SE / Sensirion AG /

Additional Benefits:

The market estimate (ME) sheet in Excel format /  
3 months of analyst support /

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