SMARTPRESSURE™

PRIMARY APPLICATIONS

Smartphones & Tablets
Bridge GNSS outage, provide terrain compensation inputs in various agricultural environments for equipment navigation, guidance, and positioning.

Wearables
Maintain blade and bucket position on bulldozers, excavators, motor- graders, etc. IMU data is coupled with GNSS to constrain position and bridge GNSS outage.

Drones, Robotics
Precision data enables the creation of HD surveys and maps, but also provides exact position for stabilization and location.

3D Geolocation
Industrial robots use motion data to enable automation, improve efficiency, monitor conditions via the precise motion and vibration measurements produced.

FEATURED PRODUCTS

ICP-20100
Ultra low power and highest accuracy pressure and temperature sensor ideally suited for mobile, geolocation, drones, and robotics.

ICP-10125
10 ATM waterproof pressure and temperature sensor ideally suited for wearable fitness monitoring and battery- powered IoT.

ICP-20100
Highest performance, lowest power Barometric pressure sensor
- Integrated temperature sensor
- Ultra low noise at the low power (1.0 µA at 1 Hz)
- Accurate measurement of 0.6 Pa or 5 cm height
- Temperature coefficient offset of 0.4 Pa/C

ICP-10125
Lowest height, waterproof Barometric pressure sensor
- Integrated temperature sensor
- IPx8 waterproofing to 10 ATM
- Ultra low noise at the low power (1.3 µA at 1 Hz)
- Accurate measurement of 1 Pa or 8.5 cm height
- Temperature coefficient offset of 0.5 Pa/C

ICP-10111
High performance, low power Barometric pressure sensor
- Integrated temperature sensor
- Ultra low noise at the low power (1.3 µA at 1 Hz)
- Accurate measurement of 1 Pa or 8.5 cm height
- Temperature coefficient offset of 0.5 Pa/C

Development Kits
Comprehensive Development and Evaluation Platform
- DK-20100, DK-10125
- Microchip G55 MCU
- Includes InvenSense MotionLink—a GUI-based development tool—and embedded Drivers
- Documentation and software at https://invensense.tdk.com/smartpressure/#dev

PRODUCT CATEGORIES

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PRODUCT DETAILS

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Package</th>
<th>Waterproof</th>
<th>Range (kPa)</th>
<th>Digital Output</th>
<th>Supply (V)</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICP-20100</td>
<td>2 × 2 × 0.8 10-pin LGA</td>
<td>2000</td>
<td>16</td>
<td>PC, I2C™, or SPI</td>
<td>1.2, 1.8, 3.3</td>
<td>NextNav™ Certified</td>
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<tr>
<td>ICP-10125</td>
<td>3.55 × 3.55 × 1.45 10-pin LGA</td>
<td>n/a</td>
<td>16</td>
<td>PC</td>
<td>1.8</td>
<td>IPx8, 10 ATM</td>
</tr>
<tr>
<td>ICP-10111</td>
<td>2 × 2.5 × 0.92 8-pin LGA</td>
<td>n/a</td>
<td>16</td>
<td>PC</td>
<td>1.8</td>
<td>NextNav™ Certified</td>
</tr>
</tbody>
</table>

Scan Here for additional materials and information.