

Press release
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Piezoresistive manifold low pressure sensors from 1 mbar

First Sensor presents its new piezoresistive low differential pressure sensors of the HTD series with measuring ranges from 1 mbar to 7 bar. The very small and flat sensors with a footprint of only 8 x 13 mm and a height of <7 mm are ideal for space-saving manifold assemblies. The HTD differential pressure sensors feature digital signal processing with 15 bit resolution and an SPI interface as well as an analog output signal.

The high-accuracy and long-term stable sensors with 3.3 V or 5 V supply are suitable for battery-powered applications in mobile and portable devices. In manifold modules, the SMD miniature sensors allow a compact arrangement without the elaborate and error-prone tubing of individual components. For pick-and-place machines in high-volume production, the HTD sensors can optionally be supplied on tape and reel. Additional output signals such as I²C bus, 1-wire, alarm outputs or pulse width modulation are available on request. The sensors are temperature compensated from 0 ... 70 °C and provide a temperature reading in addition to the pressure value.

Important features of the HTD differential pressure sensors:

- Pressure ranges from 1 mbar to 7 bar
- Footprint 8 x 13 mm, height <7 mm
- Ideal for manifold mounting
- SPI interface with 15 bit resolution

Typical applications of the HTD sensors can be found in medical devices (ventilators, anesthesia machines, CPAP, spirometers, oxygen concentrators), HVAC (volumetric flow controllers, filter monitoring, burner control), instrumentation as well as industrial and pneumatic controls.

Further product information: www.first-sensor.com/htd.

About First Sensor AG

First Sensor AG is one of the world's leading suppliers in the field of sensor systems. Our company develops and manufactures both standardized and tailor-made sensor solutions for the detection of light, radiation, pressure, flow, level and acceleration for applications in the Industrial, Medical and Mobility growth markets. The company produces in-house and along the value-added chain from component to system level.

With over 800 employees, we are represented at six German locations and also have development, production and sales sites in the USA, Canada, China, the Netherlands, UK, France, Sweden and Denmark along with a worldwide partner network. We guarantee our compliance through regular successful certifications of the sites according to ISO/TS 16949, ISO 14001, EN ISO 13485, EN 9100 and ISO 9001 - matching the respective business field.

First Sensor AG is listed in the Prime Standard of the German stock exchange in Frankfurt.

For more details on First Sensor, please visit: www.first-sensor.com

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