

## Pressure sensors

# TDK releases new high-precision, low-profile medical sensors

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TDK Corporation (TSE: 6762) presents a new range of highly accurate differential pressure sensors (part number B58621V\*), designed as printed circuit boards. The sensors are designed for measurement ranges of 16 mbar full-scale (FS), 100 mbar FS and 7 bar FS, with absolute accuracy of up to  $\pm 1$  percent FS at temperatures from  $-20$  °C to  $+70$  °C.

Their footprint of 24 mm x 26 mm accommodates pressure ports and inlets (allowing for simple screw fitting and easy maintenance) as well as two plug connectors for easy implementation of daisy chain systems. The integrated SPI (Serial Peripheral Interface) enables easy integration into various digital applications. The development and production of the sensors are EN ISO 13485-certified for use in medical devices. Precise pressure loss measurements in the flow lines allow flow rates to be calculated accurately in ventilator equipment, and they are particularly well suited for mobile ventilators due to their extremely low profile of only 6 mm. The sensors are also suitable for monitoring filters and gas admixtures.

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### Main fields of application

- Stationary and mobile ventilators
- Filter and gas admixtures monitoring

### Main features and benefits

- Extremely low profile (height 6 mm)
- Measurement ranges from 16 mbar to 7 bar
- Highly accurate up to  $\pm 1$  percent FS
- Production facility EN ISO 13485 certified

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### About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately "Attracting Tomorrow." It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in

Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

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You can find more information about the products at [www.tdk-electronics.tdk.com/en/pressure\\_sensor\\_transmitters](http://www.tdk-electronics.tdk.com/en/pressure_sensor_transmitters).

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