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Sensor+Test

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Beckhoff at SENSOR+TEST 2026: Hall 1, Booth 330

Seamless fusion of control and measurement technology

At SENSOR+TEST in Nuremberg from June 9 to 11, Beckhoff will be presenting modern measurement technology that integrates seamlessly into automation through PC-based control. Beckhoff's appearance at the exhibition will focus on end-to-end measurement chains for demanding test bench and DAQ applications from sensor connection to the cloud. Product highlights include new EtherCAT Terminals for cell voltage and energy measurement as well as robust IP67 modules that enable high efficiency and transparency in data acquisition.

Beckhoff is meeting steadily increasing demands in terms of data quality and system complexity with an end-to-end measurement chain consisting of hardware and software modules, based on variable sensor connectivity in IP20 and IP67. High-performance, time-synchronous data transmission is ensured by the high-speed EtherCAT fieldbus, which is supplemented by EtherCAT G when additional bandwidth is required. Thanks to full integration into TwinCAT, standard and precision measurement technology can be configured as needed and scaled flexibly.

One technological highlight for use in e-mobility and the hydrogen industry is cell voltage measurement. With the EL3008-0003 (8 x ± 3 V) and EL3008-0005 (8 x ± 5 V) EtherCAT Terminals, Beckhoff offers a solution that is designed for high-resolution short- and long-term monitoring of individual cell voltages in batteries or fuel cells. The analog input terminals support the measurement of stacked voltages up

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to 1,500 V CAT II. Cascaded wiring significantly reduces the effort required to measure large cell stacks.

The EL3475 EtherCAT Terminal with pluggable connection technology for current transformers also speeds up installation and commissioning considerably. In combination with the SCL6xxx low power split-core transformers, Beckhoff enables precise grid analysis by measuring all relevant electrical values. Electronic nameplates and pre-assembled cables prevent configuration errors, ensuring easy retrofitting in existing systems. EtherCAT allows the energy data to be transferred directly to higher-level analysis tools and cloud environments.

For demanding condition monitoring and dynamic position detection, Beckhoff is presenting the EP3751-0260 EtherCAT Box, which combines a 3-axis accelerometer with a 3-axis gyroscope. With a resolution of 20 bits and a sample rate of 4 kHz, the IP67 solution guarantees fast and accurate detection of rotational movements and vibrations. The housing's resistance to vibration and shock and its EMC immunity ensure reliable operation even under extreme environmental conditions, thus expanding the range of applications for decentralized measuring tasks directly on the machine.

➔ www.beckhoff.com/measurement-and-testing

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Press picture:**Picture caption:**

At SENSOR+TEST 2026, Beckhoff will be presenting end-to-end measurement chains consisting of hardware and software modules in Hall 1 at Booth 330 – from sensor connection to the cloud.

Press kit:

www.beckhoff.com/media/downloads/press/2026/pr252026_beckhoff.zip