



—
your partner
in sensor
technology.

Company Profile

E+E Elektronik: Your Partner in Sensor Technology

E+E Elektronik is an Austrian sensor specialist in the fields of humidity, dew point, moisture in oil, CO₂, air velocity, flow, pressure and temperature. Handheld measuring devices, humidity calibration systems and calibration services complete the comprehensive product portfolio.

Sensor technology by E+E Elektronik is used worldwide in a wide variety of fields. The main areas of application are in industrial measurement technology as well as HVAC and building automation. Furthermore, the highly accurate sensors are also used in agriculture, cleanroom technology, energy and environmental technology, meteorology and the pharmaceutical and food industries.

Quality from Austria

E+E Elektronik manufactures its products exclusively at its Austrian headquarters in Engerwitzdorf. To do so, the company has its own cleanroom, state-of-the-art production facilities and an in-house calibration laboratory. The high level of vertical integration – from the sensing element to the precisely calibrated measuring device – not only guarantees compliance with the highest quality standards, but also allows the company to respond to customer-specific requirements. E+E Elektronik meets the high quality requirements of its customers through a certified quality management system in line with ISO 9001 and IATF 16949.

Focus on Sustainability

Sensors by E+E Elektronik make a significant contribution towards saving energy and resources. For example, as components of state-of-the-art automation solutions, indoor atmosphere sensors enable energy-efficient and demand-oriented ventilation and climate control in buildings. Flow sensors for monitoring compressed air help manufacturing companies to sustainably reduce the energy costs for generating compressed air.

The company also focuses on energy saving and sustainability in-house. In 2020, the cleanroom ventilation system was upgraded with a heat recovery system. This reduced the energy consumption of the ventilation system by 40 percent. The energy savings achieved are equivalent to the energy consumption of 500 households and mean a CO₂ reduction of more than 300 tonnes of CO₂ per year.

As an environmentally aware and responsible company, E+E Elektronik is certified in line with the ISO 14001 environmental standard and has been an Austrian Climate Alliance partner for many years.

Accredited Calibration Laboratory

E+E Elektronik operates an accredited calibration laboratory according to EN ISO/IEC 17025 and, as a designated institute, is commissioned by Austria's Federal Office of Metrology and Surveying (BEV) to maintain the national standards for humidity, dew point, air velocity and gas concentration CO₂ in Austria. The E+E calibration laboratory offers manufacturer-independent measuring instrument calibration for humidity, dew point, CO₂, air velocity, air flow, temperature and pressure. The measuring instruments are calibrated either in the accredited calibration laboratory or directly on site. Special calibrations of humidity, dew point, air velocity or CO₂ measuring instruments are carried out by the designated NMI (National Metrology Institute) calibration laboratory. For more information, go to www.eplusecal.com

Measurands, Products and Services

Humidity

The broad product range in the field of humidity measurement technology includes sensors for demanding industrial applications or building automation.



Dew Point

Dew point sensors by E+E Elektronik enable precise dew point monitoring down to -60 °C Td. The compact sensors are used in compressed air systems, plastic dryers or other industrial drying processes.



Moisture in Oil

Moisture in oil sensors make an important contribution to maintaining the functionality of plants and machines in the long-term. They are used to monitor the moisture content in lubricating and insulating oils.



CO₂

CO₂ sensors by E+E Elektronik rely on the long-term stability of the NDIR* dual wavelength principle (*non-dispersive infrared technology) with auto-calibration. The sensors support precise measurement of the CO₂ concentration up to 10,000 ppm.



Air Velocity

The air velocity sensors rely on the principle of hot-film anemometry and measure even the smallest air flows. The sensors are used, e.g., in building automation, cleanrooms and for laminar flow monitoring.



Flow

The thermal flow meters record the mass flow and volumetric flow of compressed air and industrial gases. They are used for consumption monitoring and leak detection in pipelines from DN15 to DN700 and help to sustainably reduce operating costs.



Pressure

Differential pressure sensors by E+E Elektronik have an adjustable pressure measuring range and offer an excellent measuring accuracy of ± 0.5 % of the full scale. The sensors are suitable for air and other non-flammable, non-aggressive gases



Temperature

A wide variety of temperature sensors complete the sensor portfolio in HVAC and building technology. The innovative, compact enclosure design enables time-saving installation of the devices.



Instruments and Systems

E+E Elektronik's measurement technology solutions go beyond individual sensors and measuring devices. They are always orientated on current market requirements and customer needs.

For example, a wireless sensor system enables the creation of a wireless sensor network for measuring humidity, temperature and CO₂. A network with up to 500 wireless sensors can be managed using a base station with an integrated web server.

Multifunctional hand-held measuring devices, which can be equipped with different probes as needed, allow mobile measurement of up to 23 physical quantities with a single device.

Network-compatible data loggers and data loggers for external sensors ensure seamless recording and monitoring of all climate-related measured values in buildings, warehouses or cleanrooms.

Portable humidity calibrators from E+E Elektronik are professional reference devices for the calibration of humidity measuring instruments. Due to their high accuracy and traceability to international standards, weights and measures offices, calibration laboratories and other measuring device manufacturers rely on E+E humidity calibrators.

Service and Calibration Packages

To ensure the measurement accuracy and availability of its sensors, E+E Elektronik offers customised service and calibration packages. The scope of services in these packages takes into account the varying customer requirements and extends from device repair to accredited calibration.

Facts and Figures

E+E Elektronik Ges.m.b.H., headquartered in Engerwitzdorf/Austria, was founded in 1979. Since 1994, the company has belonged to DR. JOHANNES HEIDENHAIN GmbH, a global industrial company group headquartered in Traunreut/Germany. E+E Elektronik is represented by its own subsidiaries in China, France, Germany, India, Italy, Korea, and the USA, and by sales partners in more than 60 countries. The company currently employs 411 people worldwide. An export share of 96 % and an R&D quota of >10 % underline the international orientation and innovative strength of the Austrian technology company.

Address and Contact

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Images



The E+E Elektronik management board:
Min Kim (left) and Wolfgang Pucher (right)



E+E Elektronik headquarters, Engerwitzdorf/Austria



Sensors are produced using state-of-the-art production facilities and in compliance with the highest quality standards.



In the cleanroom, the sensitive sensing elements are manufactured under sterile conditions.

Photos: E+E Elektronik Ges.m.b.H., reprint free of charge

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