**E+E Elektronik to Provide National Measurement Standard for CO2 Gas Concentration**

Austria's Federal Office of Metrology and Surveying has entrusted E+E Elektronik with providing the national etalon for CO2 gas concentration.

(Engerwitzdorf, 26.05.2021) **The calibration laboratory of sensor specialist E+E Elektronik has been commissioned by the Austrian Federal Office of Metrology and Surveying (BEV) to provide the national measurement standard (etalon) for CO2 gas concentration. This makes the calibration experts from Engerwitzdorf the highest metrological authority in the country for a further physical quantity following humidity, dew point and air velocity. As the BEV's designated institute, E+E Elektronik is authorised to perform special calibrations at the level of a national metrology institute for these physical quantities.**

National Metrology Institutes (NMI) – in Austria this is the BEV – or its designated institutes are at the top of a country's metrology hierarchy. By providing the binding national measurement standards (etalons), they ensure the connection between legal metrology to the internationally recognised SI system of units and thus ensure globally comparable standards.

The E+E calibration laboratory has been entrusted with this important task for humidity and dew point since 2004, and for air velocity since 2011. In April 2021, the designation for CO2 gas concentration was also granted.

**Designated Institute BEV / E+E Elektronik**

As a designated institute, E+E Elektronik is committed to maintaining and further developing the national etalons in accordance with the current state and requirements of metrology. The prerequisite for this, in addition to the necessary metrological expertise and equipment, is a stringent quality management system in accordance with EN ISO/IEC 17025. In addition, E+E Elektronik is subject to regular monitoring audits by the BEV and international calibration experts.

To ensure the equivalence and international recognition of national etalons, E+E Elektronik participates in key comparisons by the CIPM/BIPM (Comité International des Poids et Mesures / Bureau International des Poids et Mesures) or EURAMET (European Association of National Metrology Institutes). Furthermore, E+E Elektronik is represented on international committees in the field of metrology for the pertinent physical quantities.

The calibration and measurement capabilities (CMC data) of the designated institute are listed in the BIPM Key Comparison Database (KCDB) under the name BEV/E+E Elektronik. According to the CIPM Mutual Recognition Arrangement (MRA), E+E Elektronik is entitled to show the CIPM-MRA logo on its BEV/E+E calibration certificates. Calibration certificates from institutes that have this logo enjoy the highest level of acceptance and are of particular interest to accredited calibration bodies due to their traceability to a National Metrology Institute.

*"The fact that we are now also a designated institute of the BEV for CO2 gas concentration, following humidity, dew point and air velocity, delights us. It further demonstrates the great expertise of our calibration laboratory, something that our customers have been benefiting from for years*," says Dietmar Pachinger, Head of the E+E Calibration Laboratory.

**Accredited Calibration Laboratory**

In addition to special calibrations as a designated institute, E+E Elektronik also offers accredited measuring device calibrations for the physical quantities humidity, dew point, CO2, air velocity, air flow, temperature and pressure. To this end, E+E Elektronik is accredited as a calibration laboratory according to EN ISO/IEC 17025 under identification number 0608 by the Austrian National Accreditation Body/Federal Ministry for Digital and Economic Affairs. The decisive feature of accredited calibrations – in contrast to so-called ISO or in-house calibrations – is the traceability of the measurement results to a national standard and thus their international comparability.

For detailed information on the services offered by the E+E calibration laboratory, go to [www.eplusecal.com](http://www.eplusecal.com)

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**Figures:**

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Fig. 1: The Austrian sensor manufacturer and calibration expert E+E Elektronik was commissioned by the Federal Office of Metrology and Surveying (BEV) to provide the national measurement standard for CO2 gas concentration.

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Fig. 2: Dietmar Pachinger, Head of the E+E Calibration Laboratory

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

**Company Profile**

E+E Elektronik develops and produces sensing elements, modules and sensors for humidity, dew point, moisture in oil, CO2, air velocity, flow, temperature and pressure. Hand-held meters, humidity calibration systems and calibration services complete the comprehensive product portfolio of the Austrian sensor specialist. The main applications for E+E products lie in HVAC, building automation, industrial process control and the automotive industry. A certified quality management system according to ISO 9001 and IATF 16949 ensures the highest quality standards. E+E Elektronik is represented by its own subsidiaries in China, Germany, France, Italy, Korea, USA and by sales partners in more than 60 countries worldwide. The accredited E+E calibration laboratory has been commissioned by the Austrian Federal Office of Metrology and Surveying (BEV) to provide the national standards for humidity, dew point, air velocity and gas concentration CO2.

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