



—
your partner
in sensor
technology.

+ Building Automation & HVAC Sensors



+ Your Single Source for Building Automation and HVAC Sensors



With over 40 years of experience as leading manufacturer of measuring devices for climatic parameters, E+E Elektronik is your reliable partner in heating, ventilation and air conditioning.

Building automation and HVAC systems are essential for creating comfortable, energy-efficient and sustainable indoor environments. From commercial and industrial buildings for data center environmental monitoring, medical care facilities, transport hubs, and sports & entertainment venues, precise measurement and intelligent control of temperature, humidity, CO₂ and airflow ensure reliable operation, optimized energy use and long-term building performance.

All measuring devices are designed, assembled and calibrated at the E+E headquarters in Austria. They employ high quality E+E sensing elements for humidity, CO₂, air velocity and differential pressure which grant outstanding measuring performance. Various analogue and digital outputs (Modbus RTU) simplify integration into the application.

Several models for room, wall, and duct mounting, as well as versions with a remote sensing probe, are available in an innovative and uniform product design. The enclosure concept simplifies installation, service or replacement and minimizes the ownership costs.

Company Headquarters
& Production Site

E+E Elektronik Ges.m.b.H.
Langwiesen 7
4209 Engerwitzdorf | Austria
T +43 7235 605-0
F +43 7235 605-8
info@epluse.com
www.epluse.com

+Temperature



Designed for building automation, HVAC and process control, our temperature sensors combine precise measurement performance with maximum flexibility. Passive and active outputs, user-configurable settings and scalable signal options ensure easy integration into various control systems. The compact and innovative design allows fast mounting, while the high protection class supports reliable operation even in demanding environments. With highly accurate and long-term stable temperature measurement, they provide a solid basis for efficient and dependable system control.



Room Temperature Sensor

TES201

Measuring range – Temperature	-30 ... +60 °C (-22 ... +140 °F)
Accuracy at 20 °C (68 °F)	±0.25 °C ... ±0.38 °C (±0.45 °F ... ±0.69 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU



Duct / Immersion Temperature Sensor

EE431

Measuring range – Temperature	Duct sensor: -40 ... 110 °C (-40 ... 230 °F) Immersion sensor: -40 ... 130 °C (-40 ... 266 °F) Electronics: -40 ... 70 °C (-40 ... 158 °F)
Accuracy active output at 20 °C (68 °F)	±0.1 °C (±0.18 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU
Protection rating	IP65 / NEMA 4X
Probe length	65 - 300 mm (2.56 - 11.81")



Temperature Sensor with Remote Probe

EE471

Measuring range – Temperature	Remote probe: -30 ... 105 °C (-22 ... 221 °F) Electronics: -30 ... 70 °C (-22 ... 158 °F)
Accuracy active output at 20 °C (68 °F)	±0.3 °C (±0.54 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU
Protection rating	Remote probe: IP67 / NEMA 4X Electronics: IP65 / NEMA 4X
Cable length	0.5 - 10 m (1.64 - 32.8 ft)



Wall Mounted Temperature Sensor

EE451

Measuring range – Temperature	-40 ... 70 °C (-40 ... 158 °F)
Accuracy active output at 20 °C (68 °F)	±0.1 °C (±0.18 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU
Protection rating	IP65 / NEMA 4X



Temperature Probe with Modbus RTU

EE074

Measuring range – Temperature	Electronics: -40 ... 80 °C (-40 ... 176 °F) 70 & 155 mm probe: -40 ... 80 °C (-40 ... 176 °F) 305 mm probe: -70 ... 105 °C (-94 ... 221 °F)
Accuracy at 20 °C (68 °F)	±0.1 °C (±0.18 °F)
Digital interface	Modbus RTU
Protection rating	IP68 (electrical connection IP67)



Cable Temperature Sensor

EE461

Measuring range – Temperature	-30 ... 105 °C (-22 ... 221 °F)
Protection rating	IP67 / NEMA 4X
Insulation resistance at 20 °C (68 °F)	typ. >100 MΩ
Wiring	2-wire / 4-wire
Cable length	0.5 - 6 m (1.6 - 19.7 ft)

+ Humidity



With decades of experience in thin-film humidity sensing, E+E Elektronik stands for highly accurate and long-term stable humidity measurement. In-house sensor manufacturing, continuous development and an accredited calibration laboratory ensure proven quality and reliability, even in harsh environments. The broad portfolio ranges from compact sensing elements to robust humidity transmitters and certified calibration systems, providing the right solution for every application.



Humidity and Temperature Room Sensor HTS201

Measuring range – Humidity	0 ... 100 %RH, non-condensing
Measuring range – Temperature	-30 ... 60 °C (-22 ... 140 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU



Humidity and Temperature Probe with Digital Interface EE072

Measuring range – Humidity	0 ... 100 %RH
Measuring range – Temperature	-40 ... 80 °C (-40 ... 176 °F)
Sensing element protection	E+E proprietary coating
Enclosure material	Polycarbonate or stainless steel
Digital interface	Modbus RTU / CANopen



HVAC Humidity and Temperature Sensor EE160

Measuring range – Humidity	0 ... 100 %RH
Measuring range – Temperature	-40 ... 60 °C (-40 ... 140 °F)
Sensing element protection	E+E proprietary coating
Analogue output	0 - 10 V 4 - 20 mA / T passive
Digital interface	Modbus RTU
Types	Wall mount / duct mount



Modular Humidity and Temperature Sensor for Demanding Climate Control HTS401

Measuring range – Humidity	0 ... 100 %RH
Measuring range – Temperature	-40 ... 80 °C (-40 ... 176 °F)
Sensing element	E+E proprietary coating RapidX intelligent exchangeable sensing module
Analogue output	0 - 5 V / 0 - 10 V 4 - 20 mA
Types	Wall mount / duct mount / remote probe
Digital interface	Modbus RTU

+ Carbon Dioxide



CO₂ sensors from E+E Elektronik use the proven NDIR dual-wavelength principle with auto-calibration for accurate and long-term stable measurement. They reliably measure CO₂ concentrations up to 10,000 ppm and support efficient ventilation control in HVAC and building automation applications. With temperature compensation, an optional passive temperature output and user-configurable, adjustable and scalable settings, they offer high flexibility for integration into modern control systems.



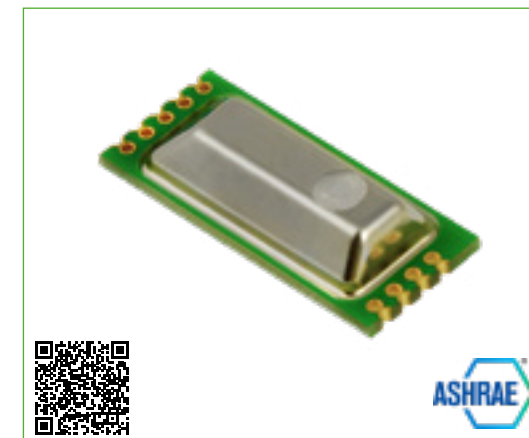
CO₂, Temperature and Humidity Room Sensor CDS201

Measuring range – CO ₂	0 ... 2000 / 5 000 ppm
Measuring range – Humidity	0 ... 100 %RH, non-condensing
Measuring range – Temperature	-30 ... 60 °C (-22 ... 140 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU



CO₂ and Temperature Duct Sensor EE850

Measuring range – CO ₂	0 ... 2000 / 10 000 ppm
Measuring range – Temperature	-20 ... 60 °C (-4 ... 140 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU
Protection rating	Enclosure: IP65/NEMA 4X Probe: IP20



Miniature Sensing Module for CO₂, Temperature and Ambient Pressure

EE895

Measuring range – CO ₂	0 ... 2000 / 5000 / 10000 ppm
Measuring range – Pressure	700 ... 1100 mbar (10 ... 16 psi)
Measuring range – Temperature	-40 ... 60 °C (-40 ... 140 °F)
Digital interface	I ² C / UART
Supply	3.3-5 V DC

+ Air Velocity



Air velocity sensors from E+E Elektronik operate on the proven hot-film anemometer principle and are equipped with high-quality E+E thin-film flow sensing elements. They provide excellent sensitivity, even at very low airflows, while the innovative probe head design enables reliable air velocity measurement up to 40 m/s. With an IP65 / NEMA 4 enclosure, best-in-class accuracy and long-term stability, they are ideal for demanding HVAC, building automation and process control applications. User-configurable, adjustable and scalable settings ensure flexible integration into a wide range of systems.



Air Velocity Sensor for HVAC Applications EE650

Measuring range – Air velocity	0 ... 10 / 15 / 20 m/s (0 ... 2000 / 3000 / 4000 ft/min)
Working range – Temperature	-25 ... 50 °C (-13 ... 122 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU



Low Air Velocity Sensor EE660

Measuring range – Air velocity	0 ... 1 / 1.5 / 2 m/s (0 ... 200 / 300 / 400 ft/min)
Working range – Temperature	-25 ... 50 °C (-13 ... 122 °F)
Analogue output	0 - 10 V 4 - 20 mA
Digital interface	Modbus RTU



HVAC Air Velocity Probe EE671

Measuring range – Air velocity	0 ... 5 / 10 / 15 / 20 m/s (0 ... 1000 / 2000 / 3000 / 4000 ft/min)
Working range – Temperature	-20 ... 60 °C (-4 ... 140 °F)
Analogue output	0 - 1 V / 0 - 5 V / 0 - 10 V
Digital interface	Modbus RTU



Air Velocity and Temperature Sensor for Laminar Flow EE680

Measuring range – Air Velocity	0 ... 2 m/s (0 ... 400 ft/min)
Measuring range – Temperature	-20 ... 70 °C (-4 ... 158 °F)
Analogue output	0 - 5 V / 0 - 10 V 0 - 20 mA / 4 - 20 mA
Digital interface	Modbus RTU
Core feature	Resistance against H2O2
LED Ring	Status indication

+ Pressure



E+E differential pressure sensors are designed for precise pressure monitoring in HVAC and building automation applications. They reliably measure even minimal pressure differences in air and other non-flammable, non-aggressive gases. The highly accurate devices feature excellent long term stability and help ensure efficient control of filters, ventilation systems and pressure zones. Their robust sensing principle also supports safe operation by excluding the risk of cross-contamination.



Differential Pressure Sensor EE600 / EE610	
Measuring range – Pressure (EE600)	0 ... 250 / 500 / 750 / 1000 Pa 0 ... 2500 / 5000 / 7500 / 10000 Pa ±250 / ±500 / ±750 / ±1000 Pa ±2500 / ±5000 / ±7500 / ±10000 Pa
Measuring range – Pressure (EE610)	0 ... 25 / 50 / 75 / 100 Pa ±25 / ±50 / ±75 / ±100 Pa
Accuracy	±0.5 % FS
Working range – Temperature	-20 ... 60 °C (-4...140 °F)
Feature	Auto-zero function
Analogue output	0 - 5 V / 0 - 10 V 0 - 20 mA / 4 - 20 mA
Digital interface	Modbus RTU

+ Hand-held



The Omniport 40 hand-held measuring device has been redesigned both visually and technically and offers a wide range of measuring options. A large selection of hand-held and process probes enables the recording of various parameters such as temperature, humidity, air velocity, dew point (down to -60° Td), moisture in oil or CO2 - precisely and on site with just a single device. This saves time required for individual measurements. All Hand-Held Probes are supplied with a test report according to DIN EN 10204-2.2 and the connected probes can be adjusted directly via the hand-held measuring device.



Multifunctional Hand-held Meter Omniport 40	
Supported probes	Relative humidity, temperature, CO ₂ , air velocity, moisture in oil, dew point
Modes	On-spot measurement, data logging & data collecting
Features	Oil library, connection of up to two probes
Protection rating	IP67
Power supply	4x AA rechargeable NiMH batteries

+ Calibrating your Limits



Sensors used in drying processes are essential for the precise control of temperature and humidity – both of which are critical for product quality and energy efficiency.

For quality-sensitive applications, regular calibration with traceable certificates is indispensable. E+E Elektronik provides these calibration certificates directly upon delivery of the sensors, issued from its accredited in-house laboratory.

High-End Sensor Calibration - around the World

Your products and services can only be as precise as the devices used to measure them. E+E Elektronik's calibration laboratory ensures your sensors meet the highest quality standards, guaranteeing optimal performance and compliance with all necessary regulations.

With over 25 years of experience, the E+E calibration team focuses on providing reliable service with minimal error potential and no unnecessary delays.

Advantages of the E+E Calibration Laboratory

- High accuracy with traceable calibration
- Low measurement uncertainty paired with extensive calibration offerings
- All-in-one solutions with manufacturer-independent calibration
- Minimized downtime through fast calibration processes



„For my team and me, precision, speed and reliability in calibration have top priority. With over 25 years of experience, we stand for the highest quality, regardless of the manufacturer, all around the world.“

Dietmar Pachinger, Head of Accredited Calibration Laboratory, E+E Elektronik

+ E+E Elektronik – Your Partner in Sensor Technology

E+E Elektronik GmbH, with headquarters in Engerwitzdorf, Austria, has been established in 1979 and is part of Dr. Johannes Heidenhain group.

Diverse.

E+E Elektronik is a leading manufacturer of sensors for a multitude of physical quantities and applications. Data loggers, hand-held meters as well as calibration systems and services round up the product portfolio.

Reliable.

Best quality made in Austria, high accuracy and outstanding long-term stability, together with advanced understanding of customer specific requirements are the main competitive advantages of E+E Elektronik.

Versatile.

Measuring devices from E+E Elektronik are used all over the world in most diverse industries such as building automation, meteorology, agriculture, food, pharmaceutical and process control.

Flexible.

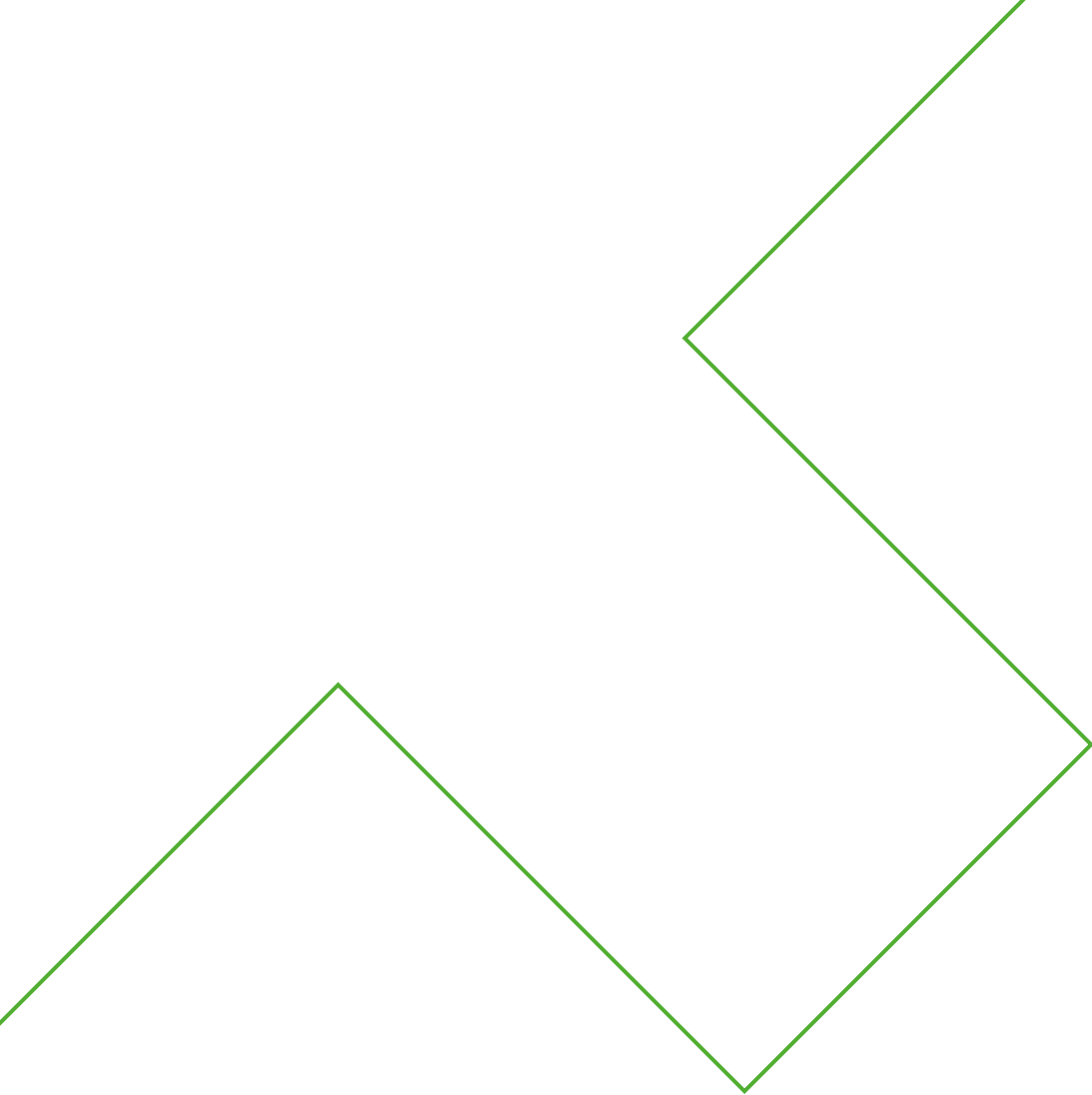
With own clean room sensor manufacturing, in-house design of state-of-the-art electronics and highest competence in calibration, E+E Elektronik is the ideal partner for OEM customers.

Certified.

The E+E Elektronik quality assurance system is certified according to ISO 9001. The company also complies with the environmental standard ISO 14001. The in-house calibration laboratories are accredited according to DIN EN ISO/IEC 17025.

Global.

E+E Elektronik sales subsidiaries are located in China, Germany, France, India, Italy, Korea and the USA. Additionally, E+E Elektronik maintains a worldwide network of distribution partners.



Company Headquarters
& Production Site

E+E Elektronik Ges.m.b.H.
Langwiesen 7
4209 Engerwitzdorf | Austria
T +43 7235 605-0
F +43 7235 605-8
info@epluse.com
www.epluse.com

Version 1.1 | 08 - 2026
Modification rights reserved | Art. Nr. 485146



—
your partner
in sensor
technology.

www.epluse.com