

ONE-STOP SOLUTION.

HVAC SENSORS & TRANSMITTERS



TEMPERATURE



HUMIDITY



CO_2



AIR VELOCITY



www.epluse.com

YOUR SINGLE SOURCE FOR HVAC SENSORS AND TRANSMITTERS

TEMPERATURE, HUMIDITY, CO₂ AND AIR VELOCITY



























With over 20 years experience as leading manufacturer of measuring devices for climatic parameters, E+E Elektronik is your reliable partner in heating, ventilation and air conditioning.

The E+E comprehensive HVAC product range includes sensors and transmitters for temperature, humidity, CO₂ and air velocity, and is tailored for the modern demand controlled ventilation and building automation. State of the art operation principle together with unique protection options for sensing elements and electronics lead to outstanding long term stability even in polluted environment and in demanding climate control applications.

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 and air velocity, which grant outstanding measuring performance. Various analogue and digital outputs (Modbus RTU, BACnet MS/TP) simplify integration into the application.

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

HVAC PRODUCT MATRIX

	 Temperature	 Humidity	 CO₂	 Air Velocity
Room				
Wall				
Outdoor				
Duct				
Cable				
Remote Probe				
Strap-On				
Immersion				
Hand-held				
Data logger				





TEMPERATURE

- » Passive and active outputs
- » Innovative and compact design
- » High protection class
- » Easy and fast mounting
- » User configurable, adjustable and scalable

EE10-T



- » Room sensor
- » Modern, elegant design for residential and commercial buildings
- » Excellent price / performance ratio
- » Easiest installation
- » EU or US enclosure

EE431



- » Duct / Immersion sensor
- » Mounting flange with special fixation and sealing
- » Innovative immersion well
- » External mounting holes at the enclosure

EE451



- » Wall mount sensor
- » Mounting bracket for thermal isolation from the wall
- » Light grey enclosure for minimal impact of solar radiation

EE441



- » Strap-on sensor
- » Very good thermal coupling, aluminum contact surface
- » Mounting on round ducts and pipes via hose clamp
- » Measurement on plane surfaces

EE471



- » Sensor with remote probe
- » Suitable for confined spaces
- » Flexible installation and wiring
- » IP67 remote probe and IP65 enclosure

EE461



- » Cable sensor
- » IP67 cable outlet with innovative star pressing
- » Labelling all along the cable
- » Several T-sensors and cable lengths



HUMIDITY AND TEMPERATURE

- » High accuracy and long term stability
- » Best protection against pollution by E+E proprietary coating
- » User configurable, adjustable and scalable
- » Passive T output option

EE10



- » Voltage or current outputs
- » Easy installation due to snap-on design
- » EU or US enclosure

EE150



- » Voltage or current outputs
- » Ø 6 mm stainless steel probe
- » IP65 / NEMA 4 enclosure
- » Easy mounting

EE160



- » BACnet MS/TP, Modbus RTU or analogue outputs
- » Wall and duct mount versions
- » Very robust sensing head
- » IP65 / NEMA 4 enclosure

EE210



- » BACnet MS/TP, Modbus RTU or analogue outputs
- » Wall, duct and remote probe versions
- » Cast measurement electronics
- » Calculated physical quantities
- » IP65 / NEMA 4 enclosure

EE210 OUTDOOR

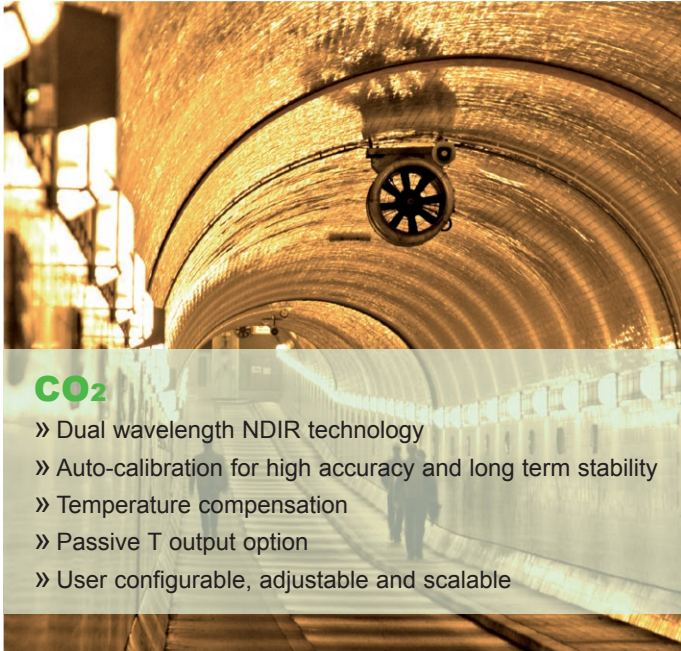


- » Cast measurement electronics
- » Outstanding temperature compensation
- » Calculated physical quantities
- » Best protection against corrosion and pollution
- » Appropriate radiation shield

EE46



- » Early detection of condensation danger
- » Alarm output (relay)
- » Fast response time
- » LED status indication



CO₂

- » Dual wavelength NDIR technology
- » Auto-calibration for high accuracy and long term stability
- » Temperature compensation
- » Passive T output option
- » User configurable, adjustable and scalable

EE800

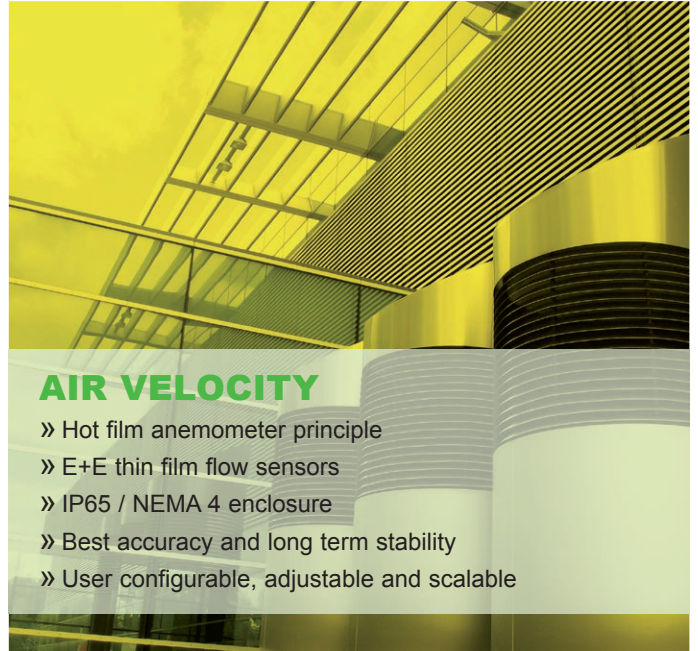


- » BACnet MS/TP, Modbus RTU or analogue outputs
- » CO₂, T and RH/Td measurement in one device
- » Easy installation due to snap-on design
- » EU or US enclosure

EE850



- » Measuring range up to 10,000 ppm
- » Voltage or current outputs
- » IP65 / NEMA 4 enclosure
- » High resistance to pollution
- » Easy installation



AIR VELOCITY

- » Hot film anemometer principle
- » E+E thin film flow sensors
- » IP65 / NEMA 4 enclosure
- » Best accuracy and long term stability
- » User configurable, adjustable and scalable

EE650



- » 0 - 10/15/20 m/s (0 - 2000/3000/4000 ft/min) range, user selectable
- » High resistance to pollution
- » Current and voltage outputs selectable by jumper
- » Duct mount or remote probe versions

EE660



- » Measurement down to 0.15 m/s (30 ft/min)
- » Current and voltage output (configurable)
- » Small angle dependency
- » Lowest sensitivity to dirt



HAND-HELD / DATA LOGGER

- » Robust hand-held with a wide choice of pluggable digital probes
- » Facilitates exact and professional monitoring for all climatic parameters

OMNIPOINT 30

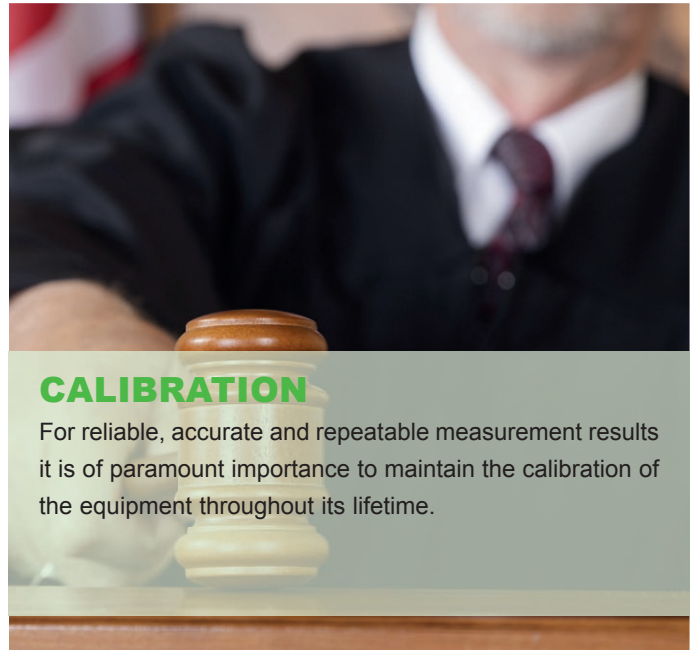


- » Probes for humidity, temperature, air velocity and CO₂
- » Capacitive TFT touch-screen
- » Data logging function with internal memory
- » Integrated air pressure sensor
- » USB interface and user friendly operation

HUMLOG 20



- » Built in sensors for humidity, temperature, CO₂ and pressure
- » External input for current, voltage, Pt100 and thermocouples
- » Reliable data recording over long periods
- » USB and Ethernet interface
- » Network-capability
- » Versatile software for data analysis



CALIBRATION

For reliable, accurate and repeatable measurement results it is of paramount importance to maintain the calibration of the equipment throughout its lifetime.

CALIBRATION KIT



- » Cost effective method for calibrating humidity measuring devices
- » Calibration chamber for probe diameter 10-12 mm
- » Traceable calibration certificate, issued by the National Metrology Institute

E+E CALIBRATION SERVICES

Accredited calibration lab (ÖKD) in accordance with EN ISO/IEC 17025 for:

- » Humidity
- » Temperature
- » Air velocity
- » CO₂ (from 2016)
- » Pressure

E+E maintains the national standards for humidity and air velocity in Austria as designated lab (NMI).



E+E Elektronik Headquarters

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 GmbH group.

Diverse. E+E Elektronik is a leading manufacturer of sensors and transmitters 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, process control or automotive.

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 quality assurance system is certified according to ISO 9001 and ISO/TS 16949. The company also complies with the environmental standard ISO 14001. The in-house calibration laboratories are accredited according to EN ISO/IEC 17025.

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

- HUMIDITY
- TEMPERATURE
- DEW POINT
- MOISTURE IN OIL
- MASS FLOW
- CO₂
- AIR VELOCITY

E+E CALIBRATION SERVICES

www.eplusecal.com

www.epluse.com

Subscribe to the E+E newsletter to be regularly informed about new products.



Version 2015-11 // Modification rights reserved // Art. Nr. 485087

HEADQUARTERS

E+E Elektronik Ges.m.b.H.
Langwiesen 7
A-4209 Engerwitzdorf
Austria
Tel: +43 7235 605 0
Fax: +43 7235 605 8
info@epluse.com
www.epluse.com

SUBSIDIARIES

E+E Elektronik Germany
info@epluse.de
Office Hamburg
Tel: +49 160 9050 6460
Office Bad Homburg
Tel: +49 6172 13881-0
Office Dietingen
Tel: +49 151 538 37 500
E+E Elektronik Italy
info@epluse.it
Tel: +39 02 2707 86 36

E+E Elektronik France
info@epluse.fr
Tel: +33 4 74 72 35 82

E+E Elektronik USA
office@epluse.com
Office Boston
Tel: +1 508 530 3068
Office Chicago
Tel: +1 847 490 7813

E+E Elektronik Korea
Tel: +82 31 732 6050
info@epluse.co.kr

E+E Elektronik China
info@epluse.cn
Office Beijing
Tel: +86 10 8499 2361
Office Shanghai
Tel: +86 21 6117 6129
Office Guangzhou
Tel: +86 20 3898 7052