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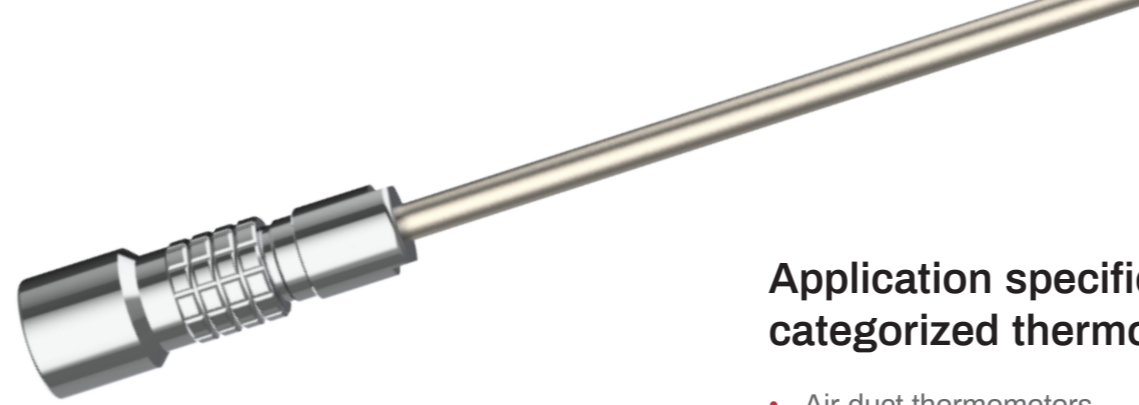
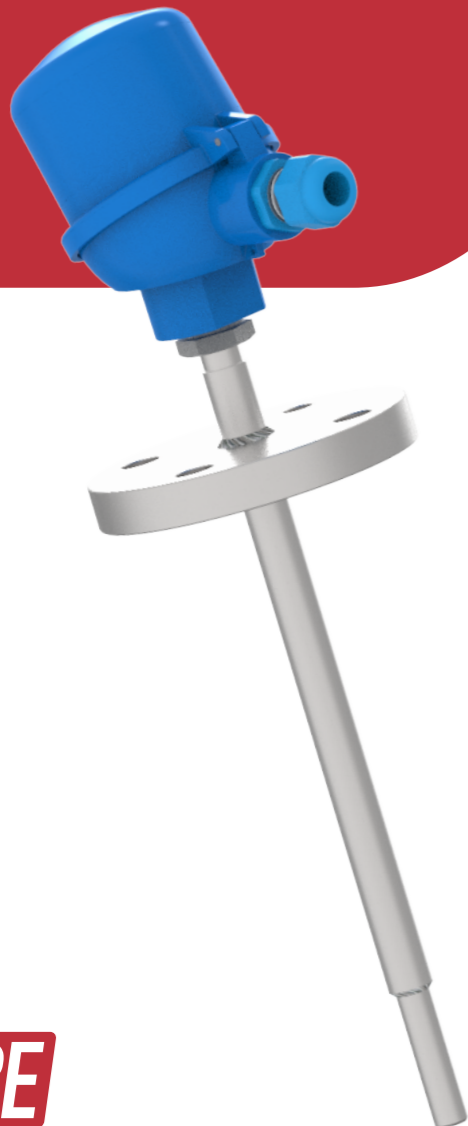
**BE** Boehme + Ewert  
EXPERT TEMPERATURE SOLUTIONS

# Professional Temperature Measurement Solutions

The wide variety of designs within process engineering systems require specialized measurement solutions. Our extensive skills and experience in professional temperature measurement technology make us the ideal partner for your projects.

Boehme-Ewert offer the most reliable technical solutions for measurement tasks. All are custom-made for the respective requirements, applications or temperature ranges.

Our expertise in producing the ultimate in technically effective temperature measurement solutions, close constructive cooperation with our customers as well as meticulous documentation are the cornerstones of our work.



## Our Products

- Temperature sensors for chemical plants and associated machinery
- Thermometer assemblies for chemical plants
- Sub assemblies for apparatus with integrated temperature sensor
- Components, subparts and mounting parts
- Temperature transmitters
- Pre-wired field housings

## Our Services

- Consultation on site
- Project planning
- Application and solution development
- Thermowell stress and wake frequency calculation
- Products tailor-made as per client's requirements
- Urgent demand deliveries
- Repair and maintenance on thermometer assemblies
- Documentation (multi-language)

Temperature devices for process manufacturing may be categorized according to their design and/or application-specific features.

## Design categorized product groups:

- Modular thermometer assemblies
- Metal sheathed temperature elements
- Straight thermocouple assemblies
- Angled thermocouple assemblies
- Small devices with cable
- Bayonet mounted temperature sensors
- Threaded temperature sensors
- Multi-level thermometer assemblies
- Insertion thermometers

## Application specific feature categorized thermometers:

- Air duct thermometers
- Environmental thermometers
- Thermometers for skin measurement (pipes and vessels)
- Bearing temperature devices
- Extruder thermometers
- Thermocouple assemblies for synthesis gas reactors
- Flue gas thermometers
- Thermocouple assemblies for Claus processes
- High temperature thermometer assemblies for HyCO-technologies
- Thermometers for cryogenic applications
- Thermometer assemblies for measurement at tanks
- Temperature devices for measurement in small pipes
- Thermometers for heat exchangers
- Thermometers for the food and pharmaceutical industry



## Thermowells:

Thermowells require specialized designs to ensure they withstand the most exacting physical and chemical stresses. These elements form the interface between the process and the temperature sensor and are the key element of a high quality temperature measurement. Providing an optimized design to our customers is one of the focal points of our work.

Even for non-standardized thermowell design, or for critical process conditions, we can provide stress calculations according to the latest technological standards.

Our product range comprises thermowells according to DIN 43772, ANSI-style designed, according to client standards or as customized process-optimised solutions.

## Our range of materials includes:

- Carbon steels
- Stainless steels
- High corrosion resistant alloys (VDM®Alloy 59, Hastelloys® etc.)
- Titanium alloys
- Thermowells with coatings such as:
  - Tantalum
  - PTFE
  - PFA
  - Armored plating (Stellites™)
  - Enameling

## Tests and certificates:

- Inspection certificates (DIN EN 10204) for materials
- Pressure tests
- Dye penetrant tests
- HE leakage tests
- X-ray tests
- Calibration certificates