



Temperature Measurement

Mechanical temperature measurement work on the bimetal, expansion or gas actuation principle. This enables scale ranges of 200- to 700+ °C in different class accuracies, response times and resilience to environmental influences. Diverse connection designs, stem diameters and individual stem lengths enable a flexible measuring point design. Dial thermometers with capillaries are particularly versatile. All thermometers, if needed, are suited for operation in a thermowell.

Thermowells For demanding operating conditions thermowells are available both in solid-machined and fabricated designs. The variants offered differ mainly in their designs; with flanges, with threads or for welding. Furthermore, thermowells are available in Van Stone design and with connections for sanitary applications. The choice of material and manufacturing to customer requirements ensures optimal protection of the sensor and precise measurements.

Manufacturers



Temperature Measurement

Bimetal Thermometer

multi-input temperature



- Robust, hermetically sealed stainless steel case
- External adjustment allows quick, limited span adjustments;
- reduces maintenance and recalibration costs
- Maxivision® dial for easy readability and parallax elimination
- Optional 316 stainless steel for 5» Everyangle design

- Get ultra-stable temperature measurement for precise inventory calculations and custody transfer for API chapter 7.3 compliance.
- Obtain outstanding temperature conversion accuracy of $0.05 \pm ^\circ\text{C}$ ($0.09 \pm ^\circ\text{F}$).
- Connect up to 16 three- or four-wire temperature elements.
- Include integrated water level sensor.
- Benefit from convenient and safe installation with two-wire IS bus power supply.

temperature switch

Temperature Transmitter



- Choice of temperature ranges (from 40° to 750°F)
- Fixed or limited adjustable deadband
- Direct or remote reading thermal systems
- Adjustable setpoints from %100-%0 of range
- Internal set point locking screw



- Industry-leading accuracy and reliability for best performance in critical control and safety applications
- Transmitter-sensor matching improves measurement accuracy up to %75
- Device dashboards provide easy interface for simplified device configuration and diagnostic troubleshooting

Thermowell

Gas Actuated



- Solid drilled thermowell
- Flanged and screwed designs
- Sized to the millimetre (40 thousands of an inch)



- Scale ranges from 700+ ... 200- $^\circ\text{C}$
- Fast response behaviour
- Case and stem from stainless steel
- Various connection and case mounting designs

