# Temperature Sensor

**P/N 56.01.017**

## Dimensions
- Insertion length: 100 mm (3.94”)
- Overall length: 112 mm (4.41”)
- Diameter of protection tube: 8 mm (0.31”)

## Connections
- Process connection: Thread G 1/2"

## Measuring Range
- Temperature limits: –50 °C to +260 °C (–58 °F to +500 °F)
- Working temperature: –50 °C to +200 °C (–58 °F to +392 °F)

## Climatic Environmental Conditions
- Permissible temperature:
  - Operation: –40 °C to +85 °C (–40 °F to +185 °F)
  - Storage: –40 °C to +100 °C (–40 °F to +212 °F)
- Temperature influence: ≤ ±0.01%/K deviation from +22 °C (+72 °F)

## Electrical Data
- Power supply $U_s$: 7.5 V DC to 30 V DC
- Working resistance: $R = (U_s - 7.5 V)/22$ mA

## Pin Designation
- 1: Power supply $U_s +$
- 2: Power supply $U_s –$
  - Two-wire connection
Overview Drawing