Screw-in RTD Probes with Cable

- For measuring temperatures from -50 to +500 °C

- Pt100, Pt500, Pt1000, PTC1000 or NTC resistance sensors

- Double RTD sensing element option

- Available in 2-wire, 3-wire or 4-wire circuit

- AISI 316 stainless steel protection tube with welded thread fitting

- PVC-, silicone-, teflon- or fiberglass-insulated cable

ET21x series screw-in resistance temperature probes are intended for measuring temperatures in liquids and gases, ensuring reliable process connection at negative or positive pressure. Applications include heating, cooling installations and industrial automation.

Depending on the needs of application, platinum RTD sensing elements with specific nominal resistance and accuracy class for temperatures up to +500 °C and common thermistors, protection tubes of various size with threaded fittings, connection cables for dry or humid conditions and flexible stainless steel armour can be supplied.

The standard version includes Pt100 class B RTD sensor with measurement range -50...+250 °C, Ø6 mm protection tube with G1/2 thread fitting, 3 meters of 3-wire silicone-insulated cable.

Sensing element
  - Pt100, Pt500 or Pt1000 RTD sensor,
    class B, A, 1/3B or 1/10B according to EN 60751,
    measurement range -50...+250 °C or -50...+500 °C
  - PTC1000 thermistor (1000 Ohm @ 25 °C), range -30...+150 °C
  - NTC10A thermistor (10 kOhm @ 25 °C), range -30...+150 °C

Protection tube
  - 1.4404/AISI316L stainless steel Ø4...15 mm, E50...1500 mm
    (tubes in stock have Ø6 mm and
    length E = 50 / 75 / 100 / 130 / 160 / 200 / 250 mm),
  - PTFE coating option for agressive conditions

Welded thread fitting
  - 1.4401/AISI316 stainless steel
  - G1/2 outer thread as standard,
    G1/4, G1/8, M20×1,5 and others on request

Connection cable
  - 2-, 3-, or 4-wire circuit, shielded or not,
  - maximum operating temperature (continuous/peak):
        silicone-insulated 180/230 °C,
        teflon-insulated 260/310 °C,
        fiberglass-insulated 480/530 °C
  - transition options from cable to protection tube for strain relief:
        standard (IP55) or waterproof (IP68)

Accessories
  - flexible stainless steel armour for cable, series SSAx

To provide 4-20 mA / 0-10 V analog output or digital RS485 Modbus RTU interface, E2060 series transmitters mountable onto wall and DIN-rail are available (see: sheet 1.51).

G1/2"
M20×1,5

E

ØD

(3)
1

ϑ

2
(4)

E2060

ϑ   4-20 mA
     0-10 V
     RS485 Modbus RTU