

PPS Fabricated RTD (Pt100/Pt1000) Sensor with Pot Seal (+260°C)

PMI Mineral Insulated RTD (Pt100/Pt1000) Sensor with Pot Seal (+500°C)

PPS Fabricated RTD Sensor with Pot Seal (+260°C)

PPS sensors are custom manufactured and available with a 3.0mm, 4.5mm, 6.0mm or 8.0mm diameter 316 stainless steel probe.

The sensors are supplied complete with an epoxy resin sealed plain pot seal and PVC or PFA insulated extension cable. Can be supplied as simplex or duplex, with a wiring configuration of 2, 3 or 4-wire to suit your application requirements.

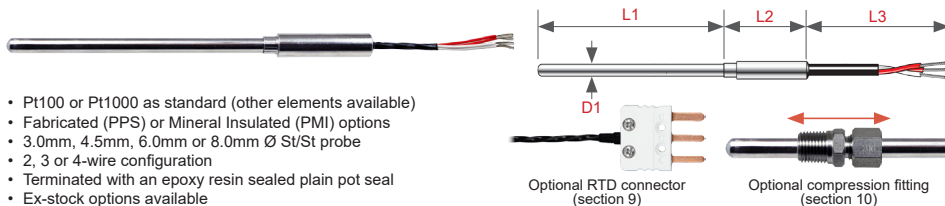
The stem of the sensor is temperature rated -30°C to +105°C for sensors manufactured with a PVC cable, and -75°C to +260°C for sensors with a PFA cable.

PMI Mineral Insulated RTD Sensor with Pot Seal (+500°C)

PMI mineral insulated sensors are available with a 3.0mm, 4.5mm, 6.0mm or 8.0mm diameter 316 stainless steel probe.

The sensors are supplied complete with an epoxy resin sealed plain pot seal and with PVC or PFA insulated extension cable. Can be supplied as simplex or duplex, with a wiring configuration of 2, 3 or 4-wire to suit your application requirements.

The mineral insulated construction allows the sensors to be bent and protects the Pt100/Pt1000 element against failure caused by vibration. The stem of the sensor is temperature rated -75°C to +500°C.



- Pt100 or Pt1000 as standard (other elements available)
- Fabricated (PPS) or Mineral Insulated (PMI) options
- 3.0mm, 4.5mm, 6.0mm or 8.0mm Ø St/St probe
- 2, 3 or 4-wire configuration
- Terminated with an epoxy resin sealed plain pot seal
- Ex-stock options available

| 1 | sensor type | | code |
|---|--|----------|------|
| | Fabricated RTD (Pt100) Sensor with Pot Seal (+260°C) | | PPS |
| | Fabricated RTD (Pt1000) Sensor with Pot Seal (+260°C) | | PPSK |
| | Mineral Insulated RTD (Pt100) Sensor with Pot Seal (+500°C) | | PMI |
| | Mineral Insulated RTD (Pt1000) Sensor with Pot Seal (+500°C) | | PMIK |
| 2 | probe diameter (D1) | code | |
| | 3.0mm | 3.0 | |
| | 4.5mm | 4.5 | |
| | 6.0mm | 6.0 | |
| | 8.0mm | 8.0 | |
| 4 | probe length (mm) (L1) | code | |
| | As required to suit your application | e.g. 250 | |
| 3 | detector elements - simplex / duplex | | code |
| | Simplex (1 channel) | | S |
| | Duplex (2 channels) | | D |
| 5 | wiring configuration | | code |
| | 2-wire | | 2 |
| | 3-wire | | 3 |
| | 4-wire (Simplex only) | | 4 |

| 6 | grade of element | accuracy at 0°C | accuracy at 100°C | code | 7 | cable length (mm) L3 |
|---|-------------------|-----------------|-------------------|------|---|----------------------|
| | B | ± 0.30°C | ± 0.80°C | B | As required to suit your application (e.g. Code = 200) | |
| | A | ± 0.15°C | ± 0.35°C | A | | |
| | 1/3 (Pt100 only) | ± 0.08°C | ± 0.19°C | 1/3 | | |
| | 1/5 (Pt100 only) | ± 0.05°C | ± 0.15°C | 1/5 | | |
| | 1/10 (Pt100 only) | ± 0.03°C | ± 0.12°C | 1/10 | | |

| 8 | extension cable / configuration | | code |
|--|---------------------------------|---------------------------------|--------|
| PVC Insulated, Screened (+105°C) (6.0mm Ø only) (see page 52) | PFA Insulated Tails | PFA (no outer sheath) 7/0.2mm Ø | - |
| | | | 3-wire |
| | | | 4-wire |
| | | PVC/PVC 7/0.2mm Ø | 6-wire |
| PFA Insulated, Screened (+260°C) (see page 52) | | | 3-wire |
| | | | 4-wire |
| | | PFA/PFA 7/0.2mm Ø | 6-wire |
| | | | 6-wire |

See page 52 for our full range of RTD cable. Note: if stainless steel conduit is required suffix cable code with 'SSC' (e.g. PT1320/SSC).

| 9 | optional RTD connector (supplied attached to cable) | | code |
|------------------------------------|---|--|-------|
| FMP-U FMPT-U RSP-U RSPT-U | Miniature RTD Plug | | FMPU |
| | Miniature 3-Pin RTD Plug | | FMPTU |
| | Standard RTD Plug | | RSPU |
| | Standard 3-Pin RTD Plug | | RSPTU |

See pages 53-58 for our full range of RTD connectors.

| 10 | optional 316 stainless steel compression fitting (to suit probe diameter) | | code | | |
|----|--|--|-----------|-----------|-----------|
| | 3.0mm | | 1/8" BSPT | 1/4" BSPT | 1/2" BSPT |
| | 4.5mm | | CF30AS | CF30CS | CF30ES |
| | 6.0mm | | CF45AS | CF45CS | CF45ES |
| | 8.0mm | | CF60AS | CF60CS | CF60ES |
| | | | - | CF80CS | CF80ES |

Brass adjustable compression fittings also available. See page 60 for our full range.

| order code (example) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------------------|-----|-------|-----|-------|-----|-----|-------|----------|--------|----------|
| | PPS | - 4.5 | - S | - 200 | - 3 | - B | - 200 | - PT1320 | - FMPU | - CF45CS |