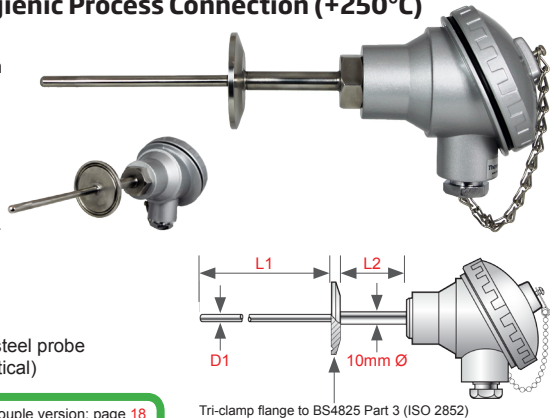


PHY RTD (Pt100/Pt1000) Sensor with Hygienic Process Connection (+250°C)

Ideal for hygienic processes including dairy, brewery and pharmaceutical applications. The sensors can be supplied with a 3.0mm, 4.5mm, 6.0mm, 8.0mm or 10.0mm diameter 316 stainless steel probe. Terminal heads are available in IP67 or IP68 rated Die Cast Alloy, Heavy Duty Stainless Steel, Glass Filled Nylon or Polypropylene, with a 20mm x 1.5mm (M20) cable entry. Inside the head is a ceramic terminal block which makes the connections to the extension cables very easy. Available as Simplex or Duplex in 2, 3 or 4-wire configurations. A 4~20mA transmitter can be mounted in the terminal head if required. Suitable for use between -75°C and +250°C. A calibration certificate can be provided if required.

- Pt100 or Pt1000 as standard (other elements available)
- 3.0mm, 4.5mm, 6.0mm, 8.0mm or 10.0mm Ø 316 stainless steel probe
- Ideal for hygienic processes (e.g. dairy, brewery, pharmaceutical)
- 2, 3 or 4-wire configuration
- Suitable for use between -75°C and +250°C

Thermocouple version: page 18



Tri-clamp flange to BS4825 Part 3 (ISO 2852)
(specify pipe size)

| | | | |
|---|--|--|-------------|
| 1 | Sensor Type | | Code |
| | RTD Pt100 Sensor with Hygienic Process Connection | | PHY |
| | RTD Pt1000 Sensor with Hygienic Process Connection | | PHYK |

| | | | |
|---|--|--|-------------|
| 2 | Probe Diameter (316 Stainless Steel) (D1) | | Code |
| | 3.0mm | | 3.0 |
| | 4.5mm | | 4.5 |
| | 6.0mm | | 6.0 |
| | 8.0mm | | 8.0 |
| | 10.0mm | | 10.0 |

| | | | |
|---|---|--|-------------|
| 3 | Detector Elements - Simplex / Duplex | | Code |
| | Simplex (1 channel) | | S |
| | Duplex (2 channels) | | D |

| | | | |
|---|--------------------------------------|--|-----------------|
| 4 | Probe Length (mm) (L1) | | Code |
| | As required to suit your application | | e.g. 250 |

| | | | |
|---|-----------------------------|--|-------------|
| 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 | Note Accuracies quoted are for the element and may not be the actual accuracy of the completed assembly. | Code |
| | B | ± 0.30°C | ± 0.80°C | | B |
| | 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 | |

| | | | | | |
|---|--------------------------------------|--|--|--|-------------|
| 7 | Connection Type | | | | Code |
| | Tri-clamp (backnut not required) | | | | T |
| | RJT (supplied complete with backnut) | | | | R |
| | IDF (supplied complete with backnut) | | | | I |

| | | | | | | | |
|---|------------------|------------------|--------------------|-----------|-------------|-----------|-----------|
| 8 | Pipe Size | ½" and ¾" | 1" and 1 ½" | 2" | 2 ½" | 3" | 4" |
| | Code | A | B | C | D | E | F |

| | | | | | | | |
|---|--------------------------------------|--|--|--|--|--|-------------------|
| 9 | Extension Length (mm) (L2) | | | | | | Code |
| | As required to suit your application | | | | | | e.g. 100mm |

| | | | | | | | |
|----|--|--|--|--|--|--|-------------------|
| 10 | Terminal Head | | | | | | Code |
| | Standard Die Cast Alloy | | | | | | KNE1/2BM20 |
| | Heavy Duty 304 Stainless Steel | | | | | | KSS1/2BM20 |
| | Standard Plastic (Glass Filled Nylon +200°C) | | | | | | KNN1/2BM20 |
| | Standard Plastic (Polypropylene +165°C) | | | | | | KPP1/2BM20 |

See page 64 for our full range of terminal heads and fittings.

| | | | | | | |
|----|--|--|--|--|--|---|
| 11 | | Optional Head Mounting 4~20mA Transmitter (replaces ceramic terminal block) | | | | Code |
| | | Linearised, Head Mounting 4~20mA Transmitter, 24VDC Power Supply, Non-isolated (pre-versioned to suit your requirements) | | | | TXHU (range) e.g. TXHU (0/200°C) |

See page 87 for a full specification of the TXHU transmitter. Isolated version also available.

ATEX versions also available (contact sales)

| | | | | | | | | | | | |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|------------------|
| Order Code (example) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | PHY | - 6.0 | - S | - 150 | - 3 | - A | - T | - A | - 100mm | - KSS1/2BM20 | - TXHU (0/200°C) |