



Head Office

Ringway Control & Automation
ABN 47 087 315 179
4 Lady Penrhyn Dr,
Unanderra, NSW 2526
products@ringway.com.au
Ph 02 4255 4300 Fax 02 42718990

Mackay Office

Ringway Materials Handling
Unit 10 Woodman Pde,
Mackay, QLD 4740
Ph 07 49524001 Fax 07 49522216



RTD SENSORS

P/N's – see table page 2

PT100 CLASS A TEMPERATURE SENSORS

DESCRIPTION:

Ringway offer a diverse range of encapsulated PT100 Class A temperature sensors in 3 or 4-wire options. The Temperature sensors come in many form factors and special mountings are possible on request. All Temperature Sensor housings are Stainless Steel (SS) or copper and are supplied with a stainless steel armored or braided flying lead unless the FRAS cable option is chosen (these have an integral hose barb for sealing the FRAS connection). Temperature sensing range is 0-80°C (PVC lead) or -50 to 200°C (Teflon lead).

FEATURES:

- **Simple, robust and functional.**
- Class A accuracy $^{\circ}\text{C} = \pm (0.15 + 0.002[t])$ to IEC 751 ($\alpha=0.00385$)
- 3 or 4-wire options available
- Diverse range of packages and custom mountings
- Stainless Steel housing and flexible armoring.
- Encapsulated
- FRAS cable option for economical mechanical protection.

APPLICATIONS:

The sensors are intended to monitor the temperature of bearings and other mechanical devices to protect against mechanical destruction and or fire. Various sensor probes are available. Lug style may be placed on the outside case of rotating shaft bearings or gearboxes (surface temperatures). Probe type may be placed in a drilled hole for fixed shaft style bearings. For probe type, the temperature sensor is in the tip of the probe.

Most lubricants break down when they are above 90 degrees Celsius. Continuously monitoring and trending temperature values allows problems to be detected before there is a mechanical failure.

The user should always check the operating temperature range of their lubricants from their lubricant manufacturer.

SPECIFICATIONS:

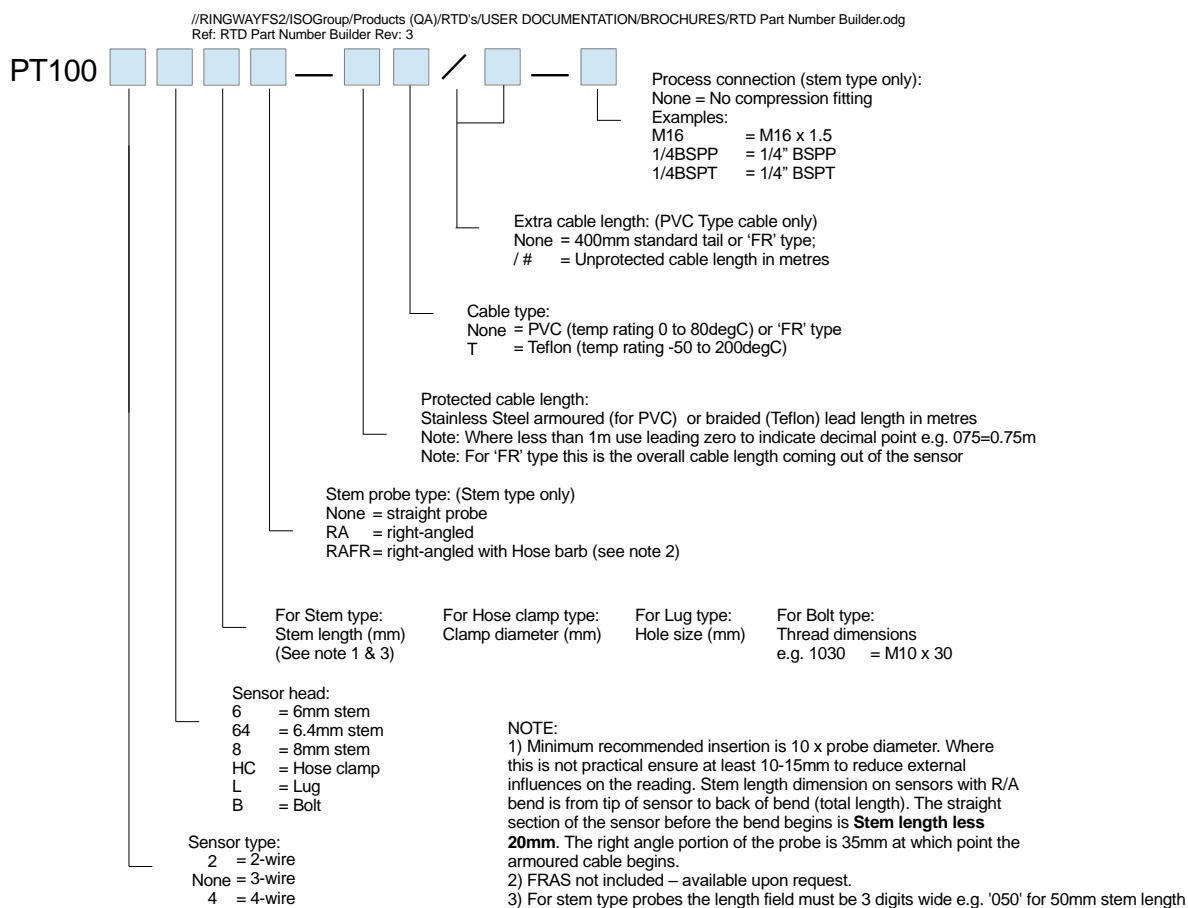
The sensors consist of a sensor head and, for probe type sensors, a process connection, a section of cable from the head that is Stainless Steel (SS) armoured or braided for mechanical protection, and then (for PVC lead type only) a section of extra lead that is not armoured for easy laying in ducting and termination to the desired length: always over specify this length and cut or loop when installing. Sensors with the higher temp Teflon cable have an integral SS overbraid and therefore no armouring. Sensors with the hose barb for FRAS protection provide an economical alternative to armoured cable variants as the flying lead may be easily cut to size during installation, eliminating the need for multiple spares of different length cables.



'FR' type sensor with integral hose barb

PART NUMBERS:

The current range of sensor packages are indicated in the part number builder. Other configurations are possible on request.



Example Sensor Part Numbers:

PT1006220RA_075/5_1/4BSPP	6 x 220mm Probe Type Sensor RIGHT ANGLED (200mm straight) with 1/4" BSPP compression fitting, Screened PVC lead with 75cm of 7mm S/S Armour and 5m extra lead – 3 wire sensor
PT10046450_3T_M16	6.4 x 50mm Probe type Sensor with M16 x 1.5 compression fitting, 3 m Teflon lead with SS overbraid – 4 wire sensor
PT100B1030_5	M10 x 30mm Bolt Type Sensor c/w Screened PVC lead with 5m of 7mm S/S Armour and 400mm extra lead – 3 wire sensor
PT10064170RAFR_8_1/4BSPT	6.4 x 170mm Probe type Sensor RIGHT ANGLED (150mm straight) with 10mm hose barb and 1/4" BSPT compression fitting. Screened 8m PVC lead – 3 wire sensor