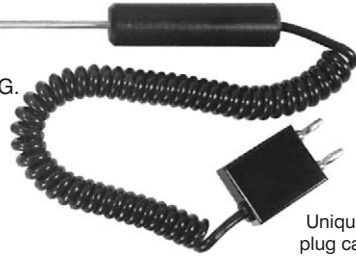


Temperature Controllers



S900PD120 IMMERSION PROBE

CASE: 0.188" (4.8 mm) DIA. × 12" (305 mm) LONG.



Unique circuitry in plug calibrates RTD

S901PD60 PENETRATION PROBE

CASE: 0.188" (4.8 mm) DIA. × 6" (152 mm) LONG.



S902PD60 AIR PROBE

CASE: 0.250" (6.4 mm) DIA. × 6" (152 mm) LONG.



T1142 Handheld Digital Thermometer

- Convenient temperature indication in °F or °C
- Excellent system accuracy: 0.4°C (2°F) over full range using specially calibrated probes
- Use with any PD or PF element RTD

Model T1142 meets the need for a simple temperature readout with accuracy and economy. Use it to measure and verify industrial processes, food freezing and cooking operations, HVAC systems, or temperature baths.

Select from three companion RTD probes for use with the T1142. Each is individually calibrated for both zero and span using special circuitry inside the plug. This unique feature gives the T1142/probe set a system accuracy within ±0.4°C—comparable to expensive laboratory instruments.

T1142PD specifications

Temperature range: -40 to 199.9°C and -40 to 400°F.

Resolution: 0.1°C or 1°F.

Accuracy (full range):

T1142: ±0.2°C or ±1.5°F.

Including handheld RTD: ±0.4°C or ±2.0°F.

Sensor type: 100 or 1000 Ω platinum RTD, TCR = 0.00385 Ω/Ω/°C.

Sensor connection: Two standard 0.75" spaced banana jacks.

Open sensor indication: Shows 1 at left side of display.

Display: 3½ digit LCD.

Power: 9 volt alkaline battery (supplied).

Ambient temperature:

Operating: 0 to 50°C (32 to 122°F).

Storage: -20 to 65°C (-4 to 150°F).

Dimensions: 5.75 × 3.60 × 1.32" (146 × 91 × 34 mm).

Weight: 7.3 ounces (207 g).

How to order T1142

T1142 Model number

PD RTD element:

PD = 100 Ω

PF = 1000 Ω

T1142PD ← Sample P/N

AC742 binding post adapter

Allows connection of wire-lead RTD's to the T1142.



Handheld RTD's

Designed for use with the T1142, these thermometers contain special calibration circuitry for tight interchangeability over a wide range. Choose from three styles: an all-purpose immersion probe, a penetration probe for meats and other soft solids, and an air probe with exposed element for fast response (not suitable for fluids).

RTD specifications

Element: Platinum, 100 ±0.08 Ω at 0°C, TCR = 0.00385 Ω/Ω/°C.

Temperature range: -73 to 260°C (-100 to 500°F), reducing to 105°C (221°F) for handle and cable.

Interchangeability: ±0.2°C (±0.36°F) from -40 to 200°C (-40 to 392°F).

Material: 316 stainless steel sheath with high temperature plastic handle.

Cable: AWG 23, stranded, PVC insulated, extended length 60" (150 cm).

Connection: 0.75" spaced double banana plug.

Handle dimensions: 3.5" (89 mm) long × 1.0" (25.4 mm) diameter.

How to order

Order by complete part number listed with the photos above; ex: S900PD120.