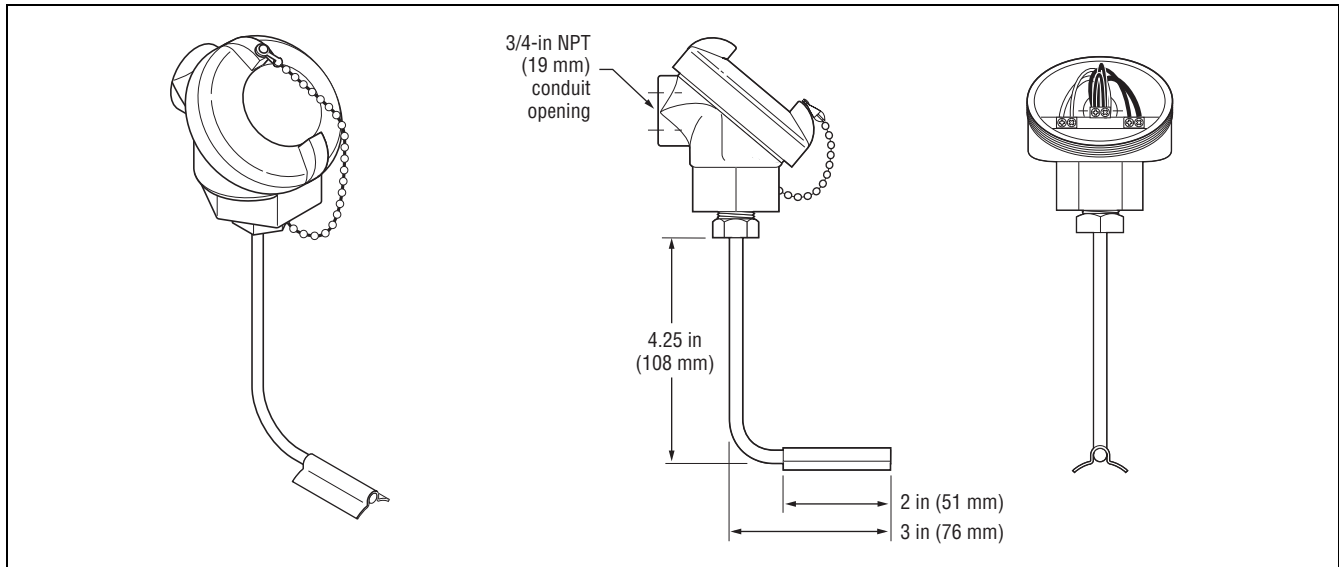


RTD temperature sensor for temperature measurement up to 900°F (482°C) in Division 1 locations

The RTD7AL temperature sensor is a three-wire platinum RTD (resistance-temperature detector) typically used with monitoring

and control systems when accurate temperature control is required. The sensor is explosion-proof and approved for Division 1

hazardous locations. The RTD7AL can be used with a wide variety of DigiTrace monitoring and control systems.



Specifications

Sensor housing	Zinc-plated cast-iron body with aluminum cap; NEMA 4, 7
Sensor sheath	316 stainless steel
Range	-100°F to 900°F (-73°C to 482°C) maximum
Accuracy	±1°F (0.5°C) at 32°F (0°C)
Resistance	100 ohms at 0°C $\alpha = 0.00385$ ohms/ohm/°C
Connection	3/4-in (19 mm) NPT conduit hub Note: The length of RTD extension wires is determined by the wire gauge used. To reduce the likelihood that electrical noise will affect temperature measurement, keep RTD extension wires as short as possible. Use shielded instrument cable such as DigiTrace MONI-RTD-WIRE (22 AWG, PVC insulation, -30°F to 140°F, -20°C to 60°C) or Belden 83553 (22 AWG, FEP insulation, -95°F to 395°F, -70°C to 200°C).

Additional Materials Required

Pipe strap, conduit, 16–22 AWG shielded instrument cable

Kit Contents

One RTD temperature sensor

Approvals

The RTD7AL is CSA certified to U.S. and Canadian standards.



Class I, Div. 1, Groups C, D
Class II, Div. 1, Groups E, F, G

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