

## C7750 Duct Probe



The C7750A is a direct wired temperature sensor that is used to sense discharge or return air in a duct that may be controlled by an

**Application:** Primary and/or secondary sensors in electronic control systems

**Dimensions, Approximate:** 1 in. high x 2 in. wide x 7 in. deep  
(25 mm high x 51 mm wide x 177 mm deep)

**Operating Temperature Range:** 45 F to 99 F (7 C to 37 C)

**Excel 10 Controller.** The C7750A Sensor consists of a temperature sensitive 20K ohm thermistor that is connected on a circuit board to two linearizing resistors in series-parallel configuration.

- A primary and/or secondary sensor for use with electronic control systems.
- Designed with an integral linearized 20K ohm thermistor.
- Operating range of 45 to 99 F (7.2 to 37.2 C).
- Intended for mounting on a flat duct or plenum surface or (for a plenum-rated application) in a standard utility conduit box.
- Probe length of 6-1/2 in. (165 mm) and a nominal sensor resistance of 8000 ohms at 77 F (25 C).
- Rugged aluminum insertion probe.

**Shipping Temperature Range:** -40 F to +150 F (-40 C to +65 C)

**Operating Humidity Range (% RH):** 5 to 95% RH, non-condensing

**Mounting:** Mounts on flat duct or plenum surface with integral mounting flange or in a 2 in. x 4 in. (51 mm x 102 mm) junction box.

**Used With:** Excel 10, W7751

| Product Number | Sensor Type         | Insertion Length |        | Description  |
|----------------|---------------------|------------------|--------|--|
|                |                     | (inch)           | (mm)   |  |
| C7750A3006/U   | 20 K ohm NTC linear | 6 in.            | 152 mm | 20 K ohm NTC linear Temperature Sensor, used with Excel 10, Series 1000 only |

## C7770A Duct Probe



The C7770 Temperature Sensors are direct wired temperature sensors that are used to sense discharge or return air in a duct.

**Application:** Primary and/or secondary sensors in electronic control systems

**Dimensions, Approximate:** 1 in. high x 2 in. wide x 7 in. deep  
(25 mm high x 51 mm wide x 177 mm deep)

**Operating Temperature Range:** 45 F to 99 F (7 C to 37 C)

The Sensors contain a temperature sensitive 20K ohm NTC nonlinearized thermistor and are compatible with the Excel 10 controller.

- Primary and/or secondary sensor for use with electronic control systems.
- Integral 20K ohm NTC nonlinear sensors
- Operating range of 45 to 99 F (7 to 37 C).
- Mounts on a flat duct or plenum surface or, for a plenum-rated application, in a standard utility conduit box.
- Probe length of 6 in. (152 mm)
- Rugged 1/4 in. diameter aluminum insertion probe.

**Shipping Temperature Range:** -40 F to +150 F (-40 C to +65 C)

**Operating Humidity Range (% RH):** 5 to 95% RH, non-condensing

**Mounting:** Mounts on flat duct or plenum surface with integral mounting flange or in a 2 in. x 4 in. (51 mm x 102 mm) junction box.

**Used With:** Excel 10, W7751

| Product Number | Sensor Type             | Insertion Length |        | Description  | Comments                  |
|----------------|-------------------------|------------------|--------|--|---------------------------|
|                |                         | (inch)           | (mm)   |  |                           |
| C7770A1006/U   | 20 K ohm NTC non-linear | 6 in.            | 152 mm | 6 in. Duct Probe for Return Air 20 K ohm NTC non-linear Temperature Sensor | —                         |
| C7770A1040/U   | 20 K ohm NTC non-linear | 6 in.            | 152 mm | 6 in. Duct Probe for Return Air 20 K ohm NTC non-linear Temperature Sensor | 6 foot plenum rated cable |