

# D03: Averaging Sensor with Cable, 275°F Max. Specifications

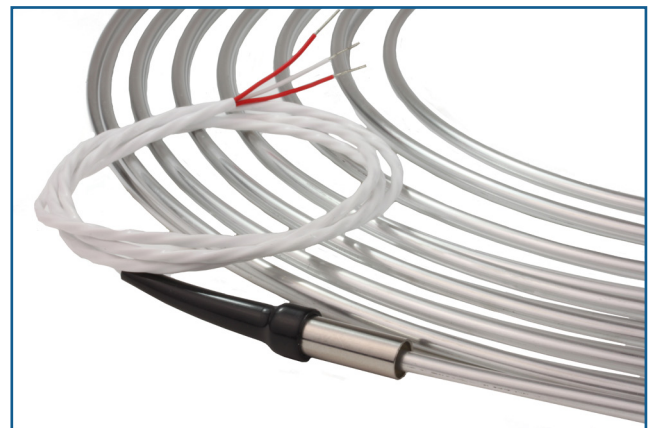
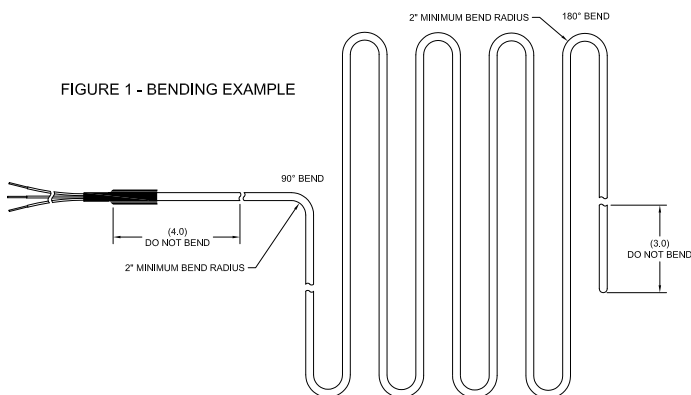
The D03 provides temperature averaging for large area air measurements in rooms or HVAC systems. This low-profile sensor is available in lengths up to 58 feet that can be formed in the field for a custom fit. The sensor can be mounted with a compression fitting or clamps.

## Features and Benefits:

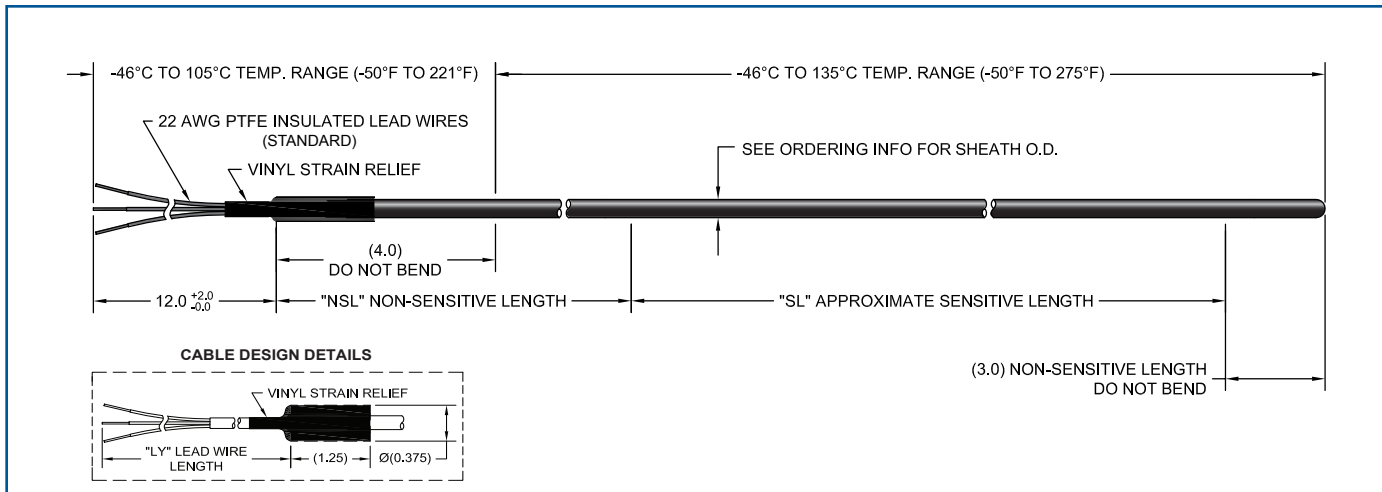
- Application: Average air temperature measurement in rooms or ductwork
- Accuracy: Standard 0.10% of resistance at 0.0°C (32°F)
- Element/Lead Wire Configuration: Single 3 or 4 wire, Dual 3 wire
- Sheath:
  - Material: Available in 316L stainless steel for cleanroom applications, or 3003 aluminum or 122 copper where ease of forming is desired. (See Figure 1)
  - Diameter: Single 0.188", Dual 0.25"
- Sensitive lengths from 3 to 58 feet
- Mounts with compression fitting or clamps
- Field formable for custom installation (See Figure 1)

## Specifications

- Element Configuration: Single and Dual, 100 ohms at 0.0°C (32°F), 0.00385 ohm/ohm/°C nominal alpha
- Temperature Range: -46°C to 135°C (-50°F to 275°F)
- Insulation Resistance: 100 MΩ, 100 VDC at room temperature
- Wire:
  - Individual lead wires: 12.0" PTFE insulated wires; Single- 22 AWG, Dual- 26 AWG
  - Cable designs:
    - > 0.375" diameter, 1.25" long transition fitting added
    - > PTFE insulated wires with FEP jacket; Single- 22 AWG, Dual- 26 AWG
    - > Add '/LY\_\_\_' to specify cable. See Common Options on page 26 for details.



# D03: Averaging Sensor with Cable, 275°F Max. Ordering Information



**D03- Averaging Sensor, 135°C (275°F) Maximum Temperature**

**RTD (Accuracy)**

10 Standard RTD 100 OHMS ± 0.1 Ω at 0°C

**Element/Lead Wire Configuration**      **Sheath O.D.**

A	Three Wire Single Element	Ø0.188"
B	Four Wire Single Element	Ø0.188"
C	Three Wire Dual Element	Ø0.250"

**"NSL" - Non Sensitive Length**

1	1 Foot
2	2 Foot
3	3 Foot

**"SL" - Approximate Sensitive Length**

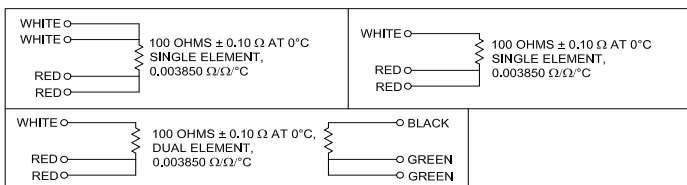
-3	3 Feet	-9	9 Feet	-17	17 Feet
-4	4 Feet	-10	10 Feet	-19	19 Feet
-5	5 Feet	-11	11 Feet	-23	23 Feet
-6	6 Feet	-12	12 Feet	-29	29 Feet
-7	7 Feet	-13	13 Feet	-58	58 Feet
-8	8 Feet	-15	15 Feet		

**Sheath Material**

-06	316L Stainless Steel
-53	Aluminum 3003
-54	Copper 122

Basic Order Codes      Common Options (pages 25-26)

Example Part # D03-10A1-3-06



NOTE: For cable designs add LY option code to the part number. See page 26 for cable options.