

Model Number Legend

The type of resistance thermometer, protective tubing length, and lead length can be specified as shown below.

Thermocouples

E52-PR□C-N D=15□
 1 2 3 4 5

1. Element type

PR:R

2. Protective tubing length (L)

Specify the length in centimeters in the following range: Unit (cm)

E52-CA□C-N

| Diameter (D) | Length (L) |
|--------------|-------------|
| 15 | 50, 75, 100 |

3. Terminal

C-N: Enclosed terminals (element type: R)

4. Diameter

| Code | Diameter (D) | Protective tubing construction | Protective tubing material |
|------|--------------|--------------------------------|----------------------------|
| 15 | 15 mm | Standard | PT1, PT0 |

5. Protective tubing material

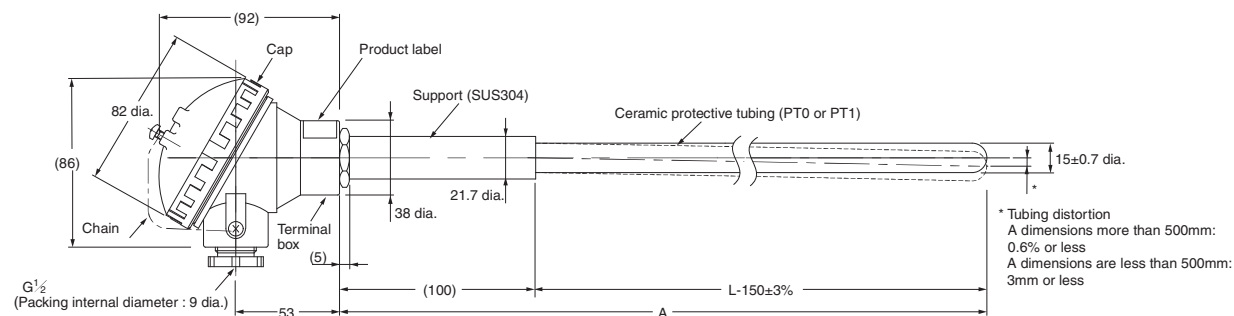
| Code | Protective tubing material | Element type |
|------|----------------------------|--------------|
| PT1 | JIS ceramic Cat.1 | R |
| PT0 | JIS special ceramic | R |

Enclosed-terminal Models (High-temperature Use)

E52-PR□C-N

Dimensions

Dimensions are given in millimeters, except for the length (L), which is provided in centimeters.



Use wiring terminals that fit M4 screws.

Permissible Temperature in Dry Air

| D | Element wire |
|---------|----------------|
| | R |
| 15 dia. | 0°C to 1,400°C |

Terminal box: The permissible temperature is 0°C to 90°C.

Note: The terminals in the cap indicate polarity (+ or -).

Note: The length L is in centimeters, but "150" is 150 millimeters.

Therefore, for the E52-PR75C-N: L = 75 (cm), the protective tubing length L - 150 = 750 - 150 = 600 mm.

Model Information

| Element type | Terminal type | Protective tubing length L (cm) | Protective tubing diameter D (mm) |
|-----------------|--------------------------|---------------------------------|-----------------------------------|
| | | | 15 dia. |
| | | | Model |
| R (See note 1.) | Enclosed-terminal Models | 50 | E52-PR50C-N D=15 PT1 |
| | | 75 | E52-PR75C-N D=15 PT1 |
| | | 100 | E52-PR100C-N D=15 PT1 |
| R (See note 2.) | Enclosed-terminal Models | 50 | E52-PR50C-N D=15 PT0 |
| | | 75 | E52-PR75C-N D=15 PT0 |
| | | 100 | E52-PR100C-N D=15 PT0 |

| Standard | Protective tubing material | Permissible temperature in dry air |
|--------------------------------------|---|------------------------------------|
| Note 1: JIS ceramic Cat.1 (PT1) | Mullite, high alumina, etc. | 1,500°C (See note.) |
| Note 2: JIS special ceramic (PT0) | Recrystallized alumina, fused alumina, etc. | 1,600°C (See note.) |

Note: The permissible temperature given for the protective tubing is higher than 1,400°C, but the permissible temperature of the thermocouple element wire is only 1,400°C. Therefore, the protective tubing of the E52-PR□C-N can withstand high temperatures momentarily to the levels given in the table as exceptions, but the element wire will deteriorate quickly if the thermocouple is used regularly at temperatures that exceed the permissible temperature for the element wire.