

B01 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Thermocouple: Single or dual, Type E, J, K and T

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Cable Temperature Limits

- -50°C to 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 22.2 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 39.8 seconds without heat transfer compound.

B02 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Thermocouple: Single or dual, Type E, J, K and T

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Cable Temperature Limits

- -50°C to 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 9.6 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 54.8 seconds without heat transfer compound.

B04 Specifications

Element Configuration

- Thermocouple: Single or dual, Type E, J, K and T

Thermocouple Range

- See table

Cable Temperature Limits

- -50°C to 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 8.9 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 14.8 seconds without heat transfer compound.

Thermocouple Specifications

| ANSI Thermocouple Type | Temperature Range | Special Limits Accuracy |
|------------------------|----------------------------------|-------------------------|
| Type E | -50°C TO 125°C 125°C TO 200°C | 0.5°C 0.4%* |
| Type J | 0°C TO 200°C | 1.1°C |
| Type K | 0°C TO 200°C | 1.1°C |
| Type T | -50°C TO 125°C 125°C TO 200°C | 0.5°C 0.4%* |

*% applies to measurement in °C

B03 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Thermocouple: Single or dual, Type E, J, K and T

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Cable Temperature Limits

- -50°C to 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 26.0 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 67.0 seconds without heat transfer compound.

B05 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Cable Temperature Limits

- -50°C to 200°C

RO interchangeability

- RO ± 0.10 ohms

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 8.9 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 14.8 seconds without heat transfer compound.

B06 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Thermocouple: Single or dual, Type E, J, K and T

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Ambient Temperature Limit

- 93°C

RO interchangeability

- RO ± 0.10 ohms

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 41.3 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 66.5 seconds without heat transfer compound.

B07 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Thermocouple: Single or dual, Type E, J, K and T

RTD Temperature Range

- -50°C to 200°C

Thermocouple Range

- See table

Ambient Temperature Limit

- 93°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Time Response

- Maximum time to 63.3% of a step change in temperature of water moving at 3 fps.
 - » 41.3 seconds with heat transfer compound between the sensor plate and measurement surface.
 - » 66.5 seconds without heat transfer compound.

B09 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha

RTD Temperature Range

- -200°C to 500°C

Cable Temperature Limits

- 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature

Thermocouple Specifications

| ANSI Thermocouple Type | Temperature Range | Special Limits Accuracy |
|------------------------|----------------------------------|-------------------------|
| Type E | -50°C TO 125°C 125°C TO 200°C | 0.5°C 0.4%* |
| Type J | 0°C TO 200°C | 1.1°C |
| Type K | 0°C TO 200°C | 1.1°C |
| Type T | -50°C TO 125°C 125°C TO 200°C | 0.5°C 0.4%* |

*% applies to measurement in °C

B08 Specifications

Element Configuration

- RTD: single and dual, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha

RTD Temperature Range

- -200°C to 500°C

Cable Temperature Limits

- 200°C

Insulation Resistance

- 500 MΩ, 100VDC at room temperature