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	Самара (846)206-03-16	

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Датчики температуры PT100 PIXSYS. Техническое описание

Temperature probe - 6mm diameter with 3-wire cable

Temperature measurement by resistance thermometers relies on a property common to all conductors and semiconductors, which is the variation in their electrical resistance in relation to temperature change. PT100 sensor has a resistance of 100 ohms at 0 °C and the coefficient of variation is 0.00385 ohm per degree centigrade. The technology made to meet modern demands in accuracy is based on thin platinum layers on a ceramic substrate (thin-film resistors).



Since the resistance of the sensor is the total of the resistance of the connecting cables (variable with temperature), a three-wire system is used to cancel out the error.

The PT100 Easy-up probes are assigned a numeric code that once inserted allows the Pixsys controllers to automatically set the main operating parameters.

Ordering codes

2000.90.039

BLI-PT100B-6X50-A304-0000-3 m GSC cable

2000.90.001

BLI-PT100B-6X100-A304-0000-3 m GSC cable

2000.90.153

BLI-PT100B-6X50-A304-0000-3 m TTS cable

2000.90.520

BLI-PT100B-6X80-A304-0000-2 m TTS cable

2000.90.036

BLI-PT100B-6X100-A304-0000-3 m TTS cable

2000.90.521

BLI-PT100B-6X130-A304-0000-2 m TTS cable

2000.90.522

BLI-PT100B-6X230-A304-0000-2 m TTS cable

Sliding junction ordering codes

2000.30.003

Sliding junction \varnothing 6x1/8" GAS

2000.30.006

Sliding junction \varnothing 6x1/4" GAS

2000.30.027

Sliding junction \varnothing 6x1/4" NPT

2000.30.009

Sliding junction \varnothing 6x1/2" GAS

Main features

Stem diameter

6mm

Immersion material

Steel AISI 304

Internal insulation

MgO Magnesium oxide >20Mohm at 25°C (500Vdc)

Sensor

PT100 class B (+/- 0,3°C at 25°C)

GSC cable

Silicon rubber, operating temperature -40 ... 250°C

TTS cable

Glass fiber, operating temperature -200 ... 500°C

Sealing

40mm bend proof spring between cable and stem

Response time

6,5 seconds (normative BS 1904/1984/CEI60751)

6mm diameter for air with 3-wire cable

Temperature measurement by resistance thermometers relies on a property common to all conductors and semiconductors, which is the variation in their electrical resistance in relation to temperature change. PT100 sensor has a resistance of 100 ohms at 0 °C and the coefficient of variation is 0.00385 ohm per degree centigrade. The technology made to meet modern demands in accuracy is based on thin platinum layers on a ceramic substrate (thin-film resistors).



Since the resistance of the sensor is the total of the resistance of the connecting cables (variable with temperature), a three-wire system is used to cancel out the error.

The PT100 Easy-up probes are assigned a numeric code that once inserted allows the Pixsys controllers to automatically set the main operating parameters.

Air holes in the protective casing allows the sensor to respond more quickly to temperature changes.

Ordering codes

2000.90.091

BLI-PT100B-AR/6X100-A304-0000-3 m GSC cable

2000.90.395

BLI-PT100B-AR/6X100-A304-0000-3 m TTS cable

Sliding junction ordering codes

2000.30.003

Sliding junction Ø 6x1/8" GAS

2000.30.006

Sliding junction Ø 6x1/4" GAS

2000.30.027

Sliding junction Ø 6x1/4" NPT

2000.30.009

Sliding junction Ø 6x1/2" GAS

Main features

Stem diameter

6mm (special holes on the protective sheath)

Immersion material

Steel AISI 304

Internal insulation

Not present

Sensor

PT100 class B (+/- 0,3°C up to 25°C)

GSC cable

Silicon rubber, operating temperature -40 ... 250°C

TTS cable

Glass fiber, operating temperature -200 ... 500°C

Sealing

40mm bend proof spring between cable and stem

Response time

0.9 seconds (BS 1904/1984/CEI60751)

Easy-Up code

2301

Diameter 6mm with DIN 3-wire head

Temperature measurement by resistance thermometers relies on a property common to all conductors and semiconductors, which is the variation in their electrical resistance in relation to temperature change. PT100 sensor has a resistance of 100 ohms at 0 °C and the coefficient of variation is 0.00385 ohm per degree centigrade. The technology made to meet modern demands in accuracy is based on thin platinum layers on a ceramic substrate (thin-film resistors).



Since the resistance of the sensor is the total of the resistance of the connecting cables (variable with temperature), a three-wire system is used to cancel out the error.

The PT100 Easy-up probes are assigned a numeric code that once inserted allows the Pixsys controllers to automatically set the main operating parameters.

Ordering codes

2000.90.530

BOX-PT100B-6X30-MGO-1/4"/F-DIN/B

2000.90.515

BOX-PT100B-6X100-MGO-0000-DIN/B

2000.95.515

BOX-PT100B-6X100-MGO-0000-DIN/B with thermowell

2000.90.516

BOX-PT100B-6X200-MGO-0000-DIN/B

2000.95.516

BOX-PT100B-6X200-MGO-0000-DIN/B with thermowell

2000.90.517

BOX-PT100B-6X300-MGO-0000-DIN/B

2000.95.517

BOX-PT100B-6X300-MGO-0000-DIN/B with thermowell

2000.90.518

BOX-PT100B-6X400-MGO-0000-DIN/B

2000.95.518

BOX-PT100B-6X400-MGO-0000-DIN/B with thermowell

Sliding junction ordering codes

2000.30.003

Sliding junction \varnothing 6x1/8" GAS

2000.30.006

Sliding junction \varnothing 6x1/4" GAS

2000.30.027

Sliding junction \varnothing 6x1/4" NPT

2000.30.009

Sliding junction \varnothing 6x1/2" GAS

Main features

Stem diameter

6mm

Immersion material

Steel AISI 304 or 316

Internal insulation

MgO Magnesium oxide >20mOhm at 25°C (500Vdc)

Sensor

PT100 class B (+/- 0,3°C up to 25°C)

Response time

6,5 seconds (BS 1904/1984/CEI60751)

Head

DIN/B aluminium alloy, red epoxidic painting

Sealing

IP66

Operating temperature

-100 ... +500°C

Diameter 6mm with DIN head

Temperature measurement by resistance thermometers relies on a property common to all conductors and semiconductors, which is the variation in their electrical resistance in relation to temperature change. The PT100 sensor has an ohmic value of 100 at a temperature of 0°C and its variation coefficient is 0.00385 Ohm per degree centigrade.



The technology adapts to meet modern requirements and is designed to provide more precise measurements by using fine sheets of platinum on a ceramic substratum (thin film resistors).

The converter in the head of the probe converts the signal to 4...20mA in order to transmit the temperature value to the process instruments with a pre-selected scale.

The PT100 Easy-up probes are assigned a numeric code that once inserted allows the Pixsys controllers to automatically set the main operating parameters.

Ordering codes

2000.90.494

BOX-PT100B-6X200-MGO-1/2"/F-DIN/B Transmitter 0..100°C --> 4...20mA

Sliding junction ordering codes

2000.30.003

Sliding junction Ø 6x1/8" GAS

2000.30.006

Sliding junction Ø 6x1/4" GAS

2000.30.027

Sliding junction Ø 6x1/4" NPT

2000.30.009

Sliding junction Ø 6x1/2" GAS

Main features

Stem diameter

6mm

Immersion material

Steel AISI 304 or 316

Internal insulation

MgO Magnesium oxide >20Mohm @ 25°C (500Vdc)

Sensor

PT100 class B (+/- 0,3°C up to 25°C)

Response time

6,5 seconds according to normative BS 1904/1984/CEI60751

Head

DIN/B aluminium league, red epoxidic painting

Sealing degree

IP66

Operating temperature

-100 ... +500°C

Transmitter

Calibrated at 0...100°C >4...20mA

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