



PT100 EASY-UP

Diameter 6mm, DIN head, 3wires

Temperature measurement by resistance thermometers relies on a feature which is common to all conductors and semiconductors: their electrical resistance is subject to variation with changing temperature. PT100 sensor has a resistance of 100 ohms at 0 °C and the coefficient of variation is 0,00385 ohm each °C. The technology to meet requirements of accurate measurement is based on thin platinum layers on a ceramic substrate (thin-film resistors).

A three-wires system is used to compensate the error arising from resistance of connecting cables combined with resistor of the sensor itself.

Easy-Up PT100 are linked to a numeric code (password) to be entered on selected Pixsys controllers in order to set automatically the main operating parameters (type of sensor, measuring range...).

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

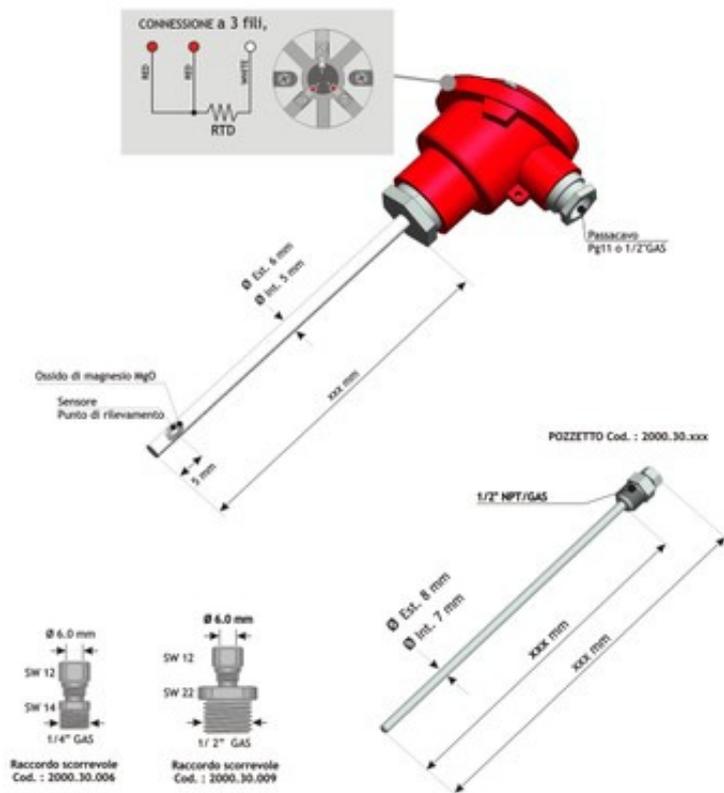
Sliding junction ordering codes

2000.30.003	Sliding junction 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 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

Size and installation



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