



Temperature Sensor – STE

Catalog

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INTRODUCTION

The PT100 temperature sensor has been built to strict quality standards, designed to work in dry and oil transformers, machine furnaces. Meets requirements, support and reliability levels according to IEC, DIN, IEEE, ABNT.

It is ideal for installations subject to inclement weather and electrical disturbances. The principle of measurement is to evaluate the variation of electrical resistance with temperature using the temperature coefficient of pure platinum is 0.385 Ohm/K. as per IEC 751 (DIN 43760). IEC data is valid for nominal resistance values of 100 ohms at 0°C. This standard also defines tolerance classes A and B in the range of – 200 to 850 °C.

TECHNICAL DATA

Technical Data of PT-100 RTD Temperature Sensor – STE	
Head	KNC - injected aluminum (IP 65);
Bulb and Haste	AISI-304 stainless steel;
Gland	BSP 3/4" threads (male) or according to design (Subject to analysis);
Connection head	3 or 4 wires; (As specified)
Weight	0.380 kg;

Table 1 – Technical data

DIMENSIONS

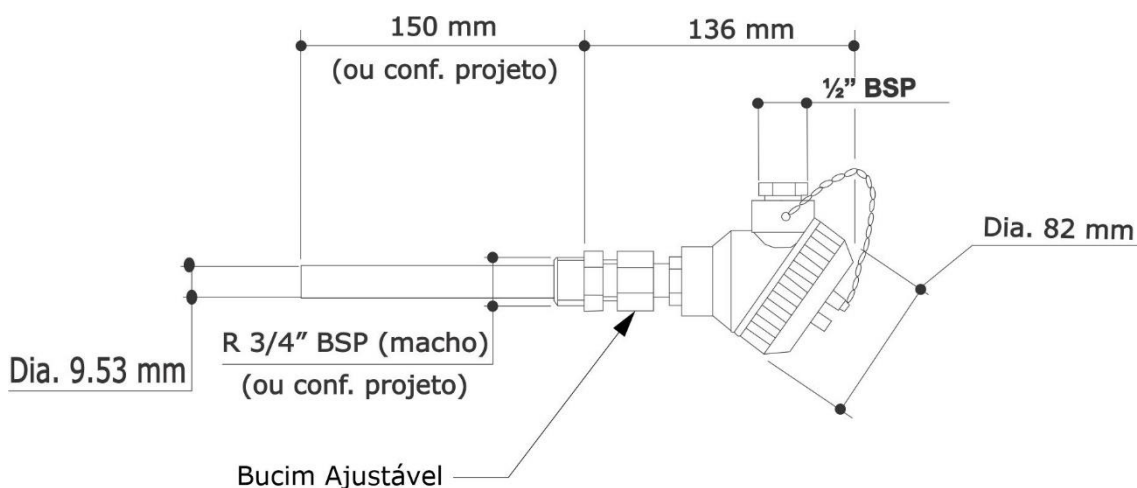


Figure 1 – Technical Drawing STE-PT100 Sensor.

STFE PT-100 SENSOR CONNECTION DIAGRAM

Due to its high precision, the PT-100 3-wire sensor is widely used in the market, as it greatly reduces the possibility of measurement error due to the cable due to the compensation principle of the third terminal of the sensor

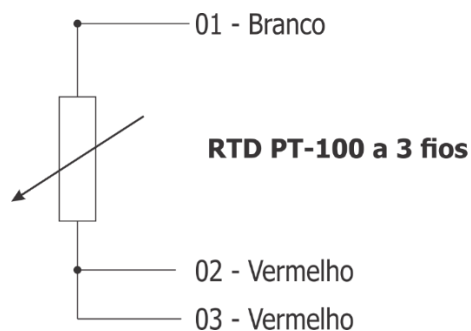


Figure 2 – STE-PT100 sensor connection diagram.

LABEL

The sensor serial number label is adhesive on the inside of the head cover, as shown in the Figure 3.



Figure 3 – Location of the label with serial number and connection diagram.

TYPE TESTS PERFORMED

- Applied voltage: 2 KV / 60 Hz / 1 min. (against the ground).

STFE PT-100 SENSOR ORDER SPECIFICATION

STE-PT100 -

Número de Fios		Rosca do Processo		Tipo de Cabeçote	
3	3 fios	2	3/4" BSP - M Bucim Ajustavel	2	Tipo KNC - IP65
4	4 fios	3	Outra Especificar		