



1050 Class A °F PT100 Simulator

- -100°F to 1000°F
- ± 0.5 °F accuracy
- Based on ITS90 EN60751
- 23 set points
- Exceeds Class A
- Good temperature stability
- Passive resistance source



Introduction

The 1050 is a precision simulator for PT100 0.3850 Platinum Resistance elements used for accurate temperature measurement.

It follows the PT100 scale from -100°F to $+1000^{\circ}\text{F}$ with 23 set points. High performance metal film resistors are used throughout which ensures a good temperature coefficient and long term stability.

The specification is in accordance with DIN EN 60751 (ITS90). Offering high accuracy across the full operating range of PT100 devices it exceeds the performance of Class A & B. The 1050 will be of particular interest to those operating in the -80 to $+140$ degF range where performance exceeding Class A e.g. better than ± 0.3 degF at 32 degF, is required.

Since the 1050's output is a purely passive resistance it will operate with all types of PT100 measuring equipment including the live systems using pulsed, or interrupted excitation current.

Specifications

Set points °F:	-100, -50, -25, 0, 32.2, 50, 75, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 1000
Accuracy:	-100 to 300 °F ± 0.5 °F 300 to 1000 °F ± 0.9 °F
Temp Coefficient:	Less than 25 ppm per °F
Maximum Current:	50 mA
Dimensions:	2.4 x 5 x 2.2 ins (61 x 112 x 55 mm)
Weight:	170 gm (6 oz)
Optional extras:	Calibration Certificate

Ordering Information

Description	Order Code
Handheld PT100 degF Simulator	1050
N.P.L. Traceable Calibration Certificate	9161
UKAS Calibration Certificate	9114