masibus®
A Sonepar Company

RTD Simulator

Masibus RS-12 is a high precision instrument for the simulation of Pt-100 resistance thermometers. The RS-12 covers the general operating range of Pt-100 thermometers with 12 calibration points. The Simulator is small in size, rugged and easy to use and it has been especially designed for field use.

Since the 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.

APPLICATION

The precision Pt100 simulator is used wherever measuring instruments or controlling systems have to be tested or calibrated with great precision. The standard version model RS-12 simulates 12 set temperature values. Totally different temperature ranges are required in the case of special applications, such as in the food industry the medical science etc. Model RS-12 is recommended for these applications and can be fitted with 12 temperature values according to customer specifications.

A distinctive feature of these simulators is their simple operation. The resistance values required for simulation are directly set in °C. There is no need to use tables.

SPECIFICATION

Accuracy	$\pm$0.3 ^{0}C
Temperature Coefficient	20 ppm
Allowable Excitation Current	0 to 15 milliamps steady or intermittent
Operating Temperature	0 to 55 °C
Storage Temperature	-20 to 70 °C
Humidity	30 to 90 °C
Dimension (in mm)	50mm (H) x135.4mm (W) x 66.5mm (D)
Enclosure material	Extruded Aluminum
Protection	IP40
Weight	<400 grams
Terminals	4 nos, 4mm safety sockets
Temperature Range	12 set temperature values

RTD SIMULATOR

- ➢ **Direct Temperature output 12 Switched Steps**
- ➢ **< 0.3 ^{0}C Accuracy**
- ➢ **"Quick Check" Switch BOX**
- ➢ **Allows 2, 3 or 4 wire connections**
- ➢ **Compact Size**

ACCESSORIES

| Sr. No.	Description of Accessory	Qty.
1.	Patch Cords RED (1 end Crocodile pin other end 4mm pin)	2
2.	Patch Cords BLACK (1 end Crocodile pin other end 4mm pin)	2
3.	Patch Cords (PC-3 RED) (Both End 4mm pin)	2
4.	Patch Cords (PC-3 BLACK) (Both End 4mm pin)	2

Table-1			
Adjustable Temperature Values			
-150°C	- 50°C	0 °C	50°C
100°C	200°C	300°C	400°C
500°C	600°C	700°C	800°C

DIMENSIONS

66.5 mm

135.4 mm

50 mm
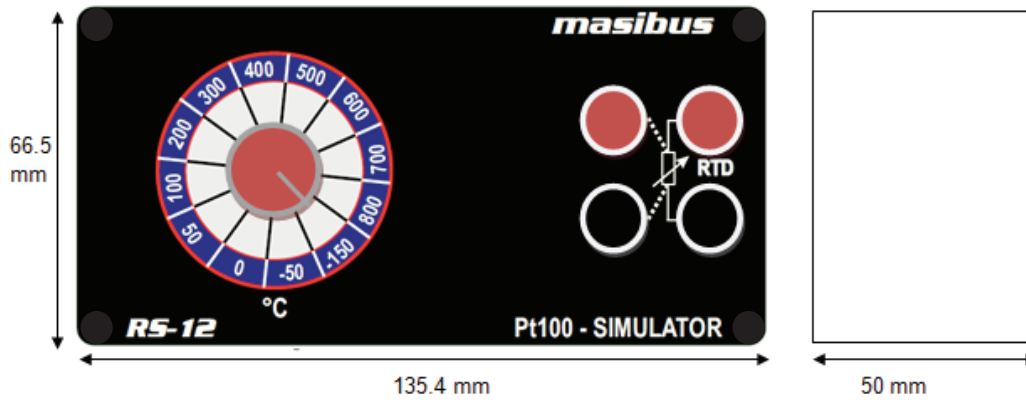
CONNECTION

Example of application: Calibration of a controller

RS-12

I+
V+

Rsim

Pt 100

V-
I-

Temperature Controller
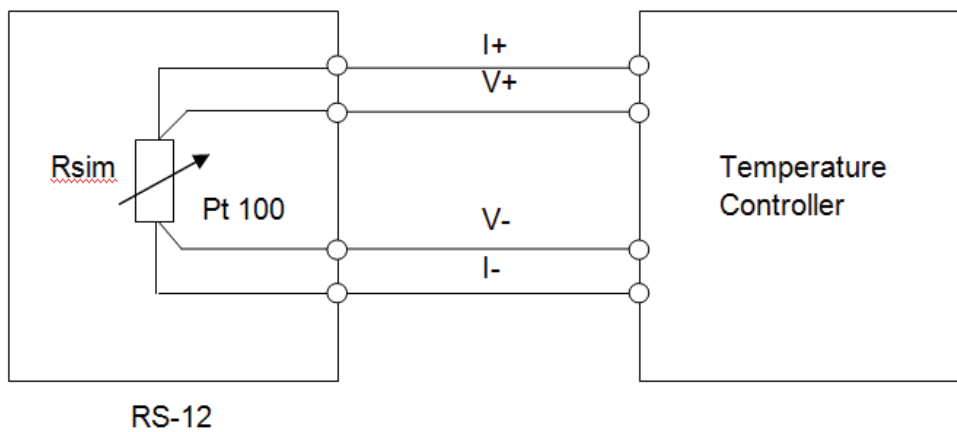
ORDERING CODE

ORDERING CODE	
Model	RS-12