

RTD Simulator

Pt 100 / 385



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DISCLAIMER

This device is intended to provide general assistance with RTD input debugging, testing and application development. It should not be permanently used in live production systems. Accordingly, production system must be tested and commissioned with real instruments to ensure safe and reliable operation.

IN NO EVENT SHALL THE DEVICE MANUFACTURER BE LIABLE FOR ANY DAMAGES OF ANY KIND INCLUDING DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOSS OF PROFIT OR DAMAGE.

The examples and diagrams in this manual are included for illustrative purposes only. Because of the many variables and requirements associated with any particular installation, the device manufacturer cannot assume responsibility or liability for actual use based on the examples and diagrams.

Before making any decision or taking any action that might affect your equipment, you should consult a qualified professional advisor.

Simulation	RTD 100 Ohm Platinum 385 100 Ohm @ 32°F $\alpha=0.0385$
RTD Output	
Output Range	32°F ..1000°F
Fixed Preset	32, 100, 250, 500, 1000°F
Output Selection	Terminal
Output Accuracy	not calibrated, preset with RTD PLC Input
Power Rating	0.125W
Max Applied Voltage	3.5V
Output Protection	None
Operating Ambient Temperature	32°F ..140°F

This is not a calibration device and can't be used for a RTD input calibration

Currently the device does not carry any agency approvals and is not compliant with RoHS.



The **RTD Simulator** was developed to assist maintenance personnel and integrators in RTD analog input testing, troubleshooting and application development.

It temporarily replaces and simulates a 2-wire, 3wire or 4-wire Platinum 100 Ohm 385 RTD resistor.

Five fixed output settings are available: 32°F, 100°F, 250°F, 500°F and 1000°F.

A specific output selection made by connecting signal wire to one of the five output terminals

Do not connect more than one output at the same time.

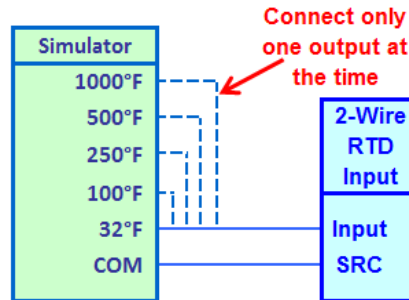
Important:

Do not use this device for calibration of input modules or instruments.

This device is a simple tester that provides simulated signal within a selected range.

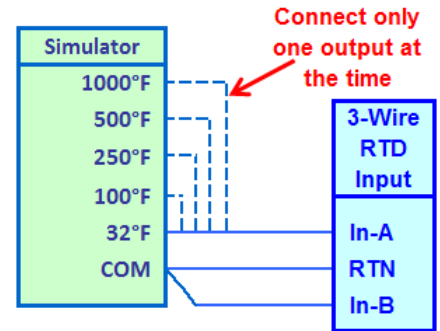
Typical Two-Wire RTD Connection

Connect **Com** and one of **Output** terminals directly to the PLC input



Typical Three-Wire RTD Connection

Connect dual wires to the **Com** terminal and a single wire to one of the **Outputs**



4-Wire RTD simulation:

Connect dual wires to the **Com** terminal and dual wires to one of the **Outputs**