



## 2-Channel Thermocouple/RTD/Pulse Input Simulator (SFE-TRP-002)



Spectro-Flux Thermocouple / RTD / Pulse Input Combo Simulator is a device designed for the functional testing and simulation of Thermocouple, RTD or Pulse Input cards of a Control System like the PLC or DCS. The device could be kept on tabletop or mounted on a 19" industrial rack.

Model SFE-TRP-002 has 3 sections. The Thermocouple input section has been provided with 2 Precision Potentiometers to simultaneously vary 2 No.s of Milli-Volt outputs. The voltage range varies from -100mV to +100mV which can accommodate all types of Thermocouples.

The RTD Input Section also has 2 Potentiometers to simulate 2No.s of 3-Wire RTD inputs. The resistance values could be varied between 0 to 1K $\Omega$ . This is sufficient to simulate most of the temperature ranges measurable with RTD's.

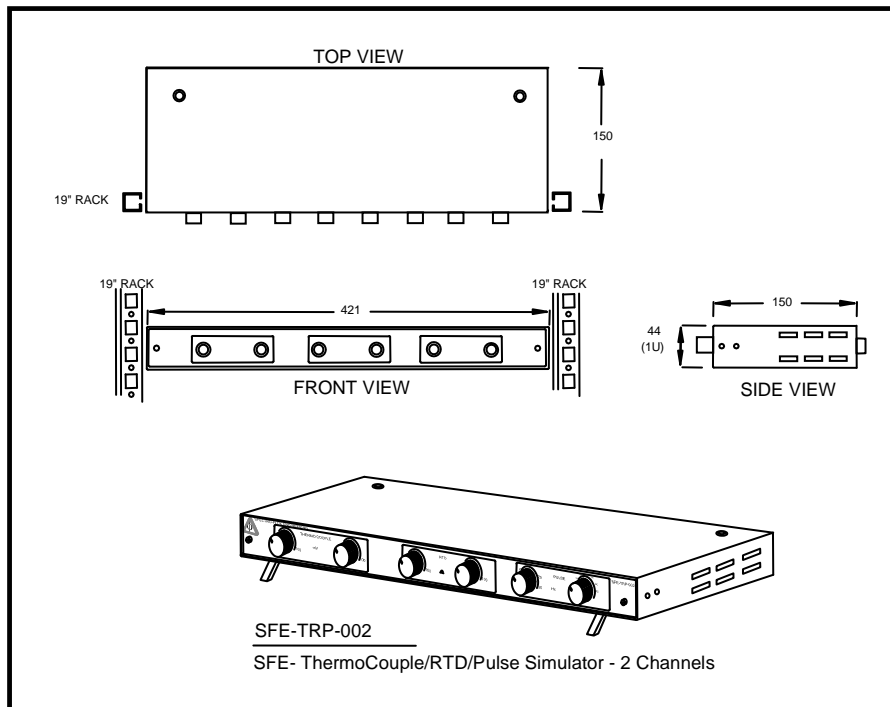
The Third section on the Simulator box is designed to provide 2 pulse output signals. Two rotary selector switches have been provided to select frequency range in 10 steps like : 10Hz, 50Hz, 100Hz, 500Hz, 1KHz, 5KHz, 10KHz, 15KHz, 20KHz and 25KHz. The pulse signal has an amplitude of 15V.

The simulator box has 3 No.s of DB 25 PIN Female connectors (J1, J2 & J3) on the back side to connect the standard pre-fabricated multi-core cables (SFE-CAB-020), the other end of which get connected to the discrete wiring blocks of I/O cards. A built-in 24VDC SMPS powers the circuits. A removable transparent plate has been provided in front of the box to mark Tag Numbers corresponding to the channels assigned in a particular project.

- Industrial Quality ✦
- PCB Based Design ✦
- Ease of Maintenance ✦
- Stackable ✦
- Desktop Mountable ✦
- 19" Rack Mountable ✦



*Accessories shown in the photograph may not be part of the original equipment.*



*Dimensions in MM*

### **Specifications :**

Body : 1.2MM, CRCA, Powder Coated.  
 Overall Size : 421MM X 44MM X 150MM  
 Color : Silver Ash Grey, HN35M (Varies between models)  
 Weight : Around 3Kg  
 Accuracy :  $\pm 2\%$   
 Operating Voltage : 24VDC  
 Output connections  
     : DB25 Female : 3 No.s  
     : 24VDC/220VAC Power Connectors  
 Mounting : Table top or 19" Rack mountable  
 Environmental : Class G1 (Mild). For internal use only.

### **Optional Accessories :**

Brackets for stacking  
 Brackets for 19" rack mounting  
 10M, 20Core Test Cable  
 19" Pedestal on wheels



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**NOTE**

THIS EQUIPMENT IS FOR  
SIMULATION PURPOSE ONLY.  
NOT TO BE USED  
AS A SOURCE FOR CALIBRATION

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