

TRU 100 Multi-Channel TC Referencing Unit

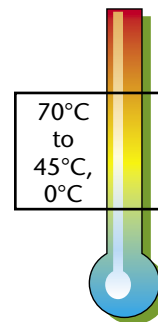
Model 937

The TRU 100 (Thermocouple Reference Unit) supplies a stable and accurate 0°C or elevated Reference Temperatures between 45°C and 70°C.

It is a self-contained all solid state unit using peltier technology which provides maintenance free operation. The TRU 100 features rapid cool down from high ambient temperatures and is stable within 10 minutes from switch on.

An alarm will be activated should the reference temperatures deviate by more than 0.2°C. Thermocouple Reference Junctions are located in a reference block and connected to their marked input and output terminals in an isothermal enclosure. The uniform temperature throughout the enclosure ensures that no thermoelectric EMFs are generated at the terminals.

One advantage of the TRU100 is that the user need not be concerned with the supply and installation of reference junctions since it is only necessary to connect the thermocouple compensation cables to the input terminals and the measuring instrument to the output terminals of the TRU100.



Key Features

- Thermocouple Referencing to ISO9000 at 0°C in Ambients Up To 65°C or Elevated Reference Temperatures between 45°C and 70°C
- References Up To 100 Thermocouples
- Pre-Wired Thermocouples
- Compact Design

Up to two TRU100s can be configured in a 19" rack mount chassis, The TRUrac

SPECIFICATIONS

Model	937
Accuracy	±0.03°C, Errors introduced by thermocouple loading can be removed by adjusting controller offset
Stability	±0.05°C at 20°C ±10°C
Ambient Range	2°C to 65°C
Stabilizing Time	10 minutes from 44°C
Thermocouple Capacity	Up to 100 Double Junction Channels
Input/Output	Screw Terminals
Monitor	4 wire Connected PT100, 1/3 Din (optional) Standard ±0.1°C Accuracy
Alarm Facilities	Non-latching relay rated 5 Amps 240V
Power	110 VAC ±10% (50/60Hz) 100 Watts typical
Dimensions	285mm x 253mm x 312mm (HxWxD)

HOW TO ORDER

TRU100 937
TRUrac 847
Normally uniquely specified for each order. Please discuss your exact requirements with us before ordering.