DATASHEET

TRU-937

Isotech

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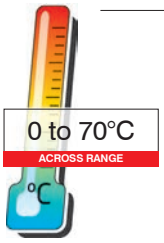

Thermocouple Reference Unit
TRU Model 937

- Up to 100 Channels
- Compact, Pre Wired Thermocouples
- Operates in High Ambients

The TRU 937 (Temperature 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 937 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 the user definable span. 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 TRU 937 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 TRU 937.

There are two models, the TRU 937/50 with up to 50 junctions with a single terminal cover door, and the TRU 397/100 which has doors on the front and rear, as shown in the photograph.

Note:
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

Model	**937**
Operating Temp.	0°C (or 45° to 70°C)
Ambient Range	2°C to 65°C
Stability	±0.03°C, Errors introduced by thermocouple loading can be removed by adjusting controller offset
Stabilising Time	10 minutes from 44°C
Capacity	Up to 100 Double Junction Channels
Input/Output Connections	Klippon Terminals, type 1.5 AKZ
Alarm facilities	Non-latching relay rated 5 Amps 240V
Power	100 Watts typical 100-130 or 208-240 VAC 50/60Hz
Dimensions	Height 265mm Width 253mm Depth TRU 937/100 312mm Depth TRU 937/50 230mm
Weight	TRU 937/100 11kg TRU 937/50 8kg

Accessories

935-14-55	Platinum Resistance Thermometer suits Block B2: Includes UKAS Calibration at 0.01°C
935-17-32	Fan Filter - recommended for high dust environments

How to order
TRU Model 937
Normally uniquely specified for each order.
Please discuss your exact requirements with us before ordering.

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