



Isobox Environmental Referencing Unit

Model 842

The function of this reference unit differs from other cased systems in that the temperature of the metal block in which the thermocouple and copper leads are inserted, actually varies with ambient temperature. A separate output signal is produced which is proportional to the difference between the environmental temperature and the actual reference temperature. The output signal can be fed directly into a computer or data logger to give accurate compensation over a large ambient range.

A thermal reservoir, heavily insulated, contains the reference junction probes. The reservoir temperature slowly follows the ambient temperature; an electrical compensation device is thermally integrated with the reservoir and thus senses the reservoir temperature. The device produces an output proportional to the difference between the reservoir temperature and the reference temperature (usually 0°C).

Units are housed in robust weatherproof enclosure. Easy access to terminal rails and block assembly is via a lockable front door.

Key Features

- Waterproof Cased Ambient Temperature Thermocouple Referencing System
- Large Capacity up to 100 Thermocouples
- Wide Ambient Range
- Approved for Power Station Use
- Rack Mounted Ambient Temperature Referencing System
- 19" Rack Mounting

SPECIFICATIONS

Model	842
Referencing Temp	Effectively 0°C
Accuracy	±0.1°C per 10°C ambient span
Long Term Stability	±0.05°C per 1000 Hours
Temperature Gradient	±0.1°C between Junctions
Stabilization Time	10 minutes
Ambient Temperature	-20°C to +70°C
Thermocouple	0 to 100 channels
Capacity	Double junction referencing
Power	110 VAC ±10% (50/60Hz) 10 Watts typical Low level D.C. Consumption 6VA typical
Dimensions	600mm x 600mm x 300mm (HxWxD)
Weight	88.2 lbs (40kg)

HOW TO ORDER

842 Isobox
Normally uniquely specified for each order.
Please discuss your exact requirements with us before ordering.

844 Isorac
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Isorac Model 844

