

Frosty Cold-Junction Compensator

Model 887

The Frosty is an accurate and low-cost device which compensates a single thermocouple for the output EMF variations caused by the fluctuations in reference junction temperature.

Thermocouple tables give the voltage versus temperature variation with the cold junction at 0°C. This unit senses the temperature difference between ambient and 0°C and generates an electrical voltage to cancel out the resultant error, thus providing the equivalent of a 0°C reference bath.

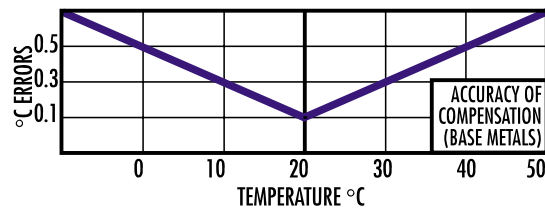
The unit is powered by a small Alkaline battery. A unique feature is a miniature voltage stabilizer to eliminate the voltage variations which are one of the most common causes of error in electronic thermocouple compensators, (the output of a dry cell varies with age, the amount of current which has been drawn from it and ambient temperature). This stabilizer, coupled with the thermal integration of the temperature sensitive element, makes the unit an outstandingly accurate device.

The unit is manufactured to the highest standards and after assembly each unit is calibrated to ensure conformance with the relevant thermocouple table.

A wide range of thermocouple types are available.

Key Features

- Single-Channel Automatic Thermocouple Compensator
- Accurate
- Portable



SPECIFICATIONS

| | |
|-------------------|---|
| Model | 887 |
| Referencing Temp | 0°C (others by arrangement) |
| Operating Temp | 0 to 40°C |
| Accuracy | ±0.1°C at 20°C plus ±0.02°C per degree above or below 20°C (see graph) |
| Output Impedance | Less than 200 ohms |
| Battery | AAA 1.5V |
| Supply Current | Less than 0.5mA |
| Variations | Periodic checking of the battery and replacing when its voltage is 1.36 Volts or less, will ensure negligible error |
| Compensation Type | K, T, J, E, U, N |
| Stability | Typically 0.2% p.a. |
| Dimensions | 25mm x 50mm x 100mm (HxWxD) |
| Weight | 0.2 lbs (107g) |

HOW TO ORDER

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|---|
| Frosty 887 |
| Specify thermocouple type e.g. Frosty 887-K |

