

CalREF 0

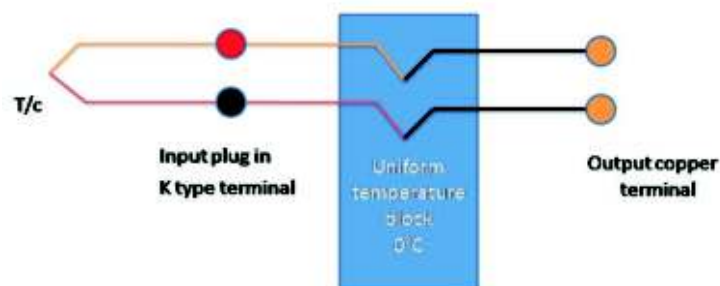
- ✓ 0°C Thermoelectric reference unit
- ✓ Eliminates Old Fashioned “Ice Bath”
- ✓ Versatile use in Industries, Laboratory, Instrument Shop
- ✓ NABL Traceable Calibration Available



In case of accurate thermocouple measurement, it's a common practice to reference the cold junction temperature at ice point (0°C) so that copper leads may be connected to an EMF readout device. This procedure avoids the compensation of Cold junction temperature at the terminal of the readout, which may not be constant and the measurement may not be very accurate. This reference junction temperature reading influences the output signal, and practical instruments like CalREF 0 are used to cancel this potential source of error.

The CalREF 0 reference unit relies on the stable and accurate maintenance of 0°C by use of precision controller and peltier thermoelectric cooling technology.

The CalREF 0 has user defined (ie. K, J, T, E, N, R, S, B or any special type) prewired thermocouple connected at the input end by means of miniature connector or terminals and miniature copper terminals at the output end. The junction of the thermocouple to the copper wire are located in the uniform temperature block, maintained at Zero° C.



Provision of insertion of an external RTD is provided for checking the temperature of the block. The controller can then be adjusted to adjust the absolute Zero degree maintenance.

The Calref Zero can be manufactured as per user defined requirements in terms of type of sensors.

Specification

Model : CalREF 0

Operating temperature : 0°C (Standard)

Accuracy : ±0.1°C, Errors can be compensated by adjusting controller setting

Stability : ±0.03°C

Stabilization time : 15 Min

Capacity : 20 No (User Defined)

Resolution : ±0.01°C

Dimension : 315mm(H)x305mm(W)x332mm(D)

Weight : 13Kgs

Power Supply : 230 VAC, 50 Hz

Carry case : Aluminium modular box