

CALSYS C-4004

PRECISION THERMOMETER

Extended area black body is defined by the large emitting surface area precise temperature control with good uniformity. The blackbody is designed to provide infrared radiation as an ideal blackbody emitter. Because of the large uniform surface area the body called extended area black body.

Tempesens offers extended area black body with two emitter size small and large have different temperature range. It designed accordingly temperature measurement and calibration both are performed in the radiation head and transfer digitally to the controller. It is designed highly standard and stable black body for testing of infrared sensors and thermal detecting devices. We sepeartly provide high programming controller with black body source. High accuracy chamber have designed separately. The temperature of the furnace is set or change by the controller.

KEY FEATURES

- ✓ High stability
- ✓ High accuracy of RTD measurement 0.01°C
- ✓ High accuracy of T/C measurement 0.1°C
- ✓ High Resolution
- ✓ Measuring inputs
- ✓ 10 Thermocouples B, C, D, E, R, S, T, N, J, K
- ✓ 6 RTD's PT-100, PT-10, PT-50, PT-500, PT-200, PT-1000
- ✓ Thermocouple reference junction external, internal and off
- ✓ Units °C/°F
- ✓ Data Logging 4000 values
- ✓ Suitable for 2/3/4 wire RTD.



SPECIFICATIONS

Display	: 192x64 LCD Graphic Panel with back light
Input	: 2 Channels for RTD and Thermocouple via lemo 1-S series connector
Working Temperature	: Less than 95% non condensing condition
Storage Temperature	: -20 to +55 °C
Mains Supply	: 85-264 VAC / 120-370 VDC 47-63 Hz
Data Logging	: Up to 4000 single channel values can be stored along with date and time
Dimensions	: 224(H) x 318(W) x 90(D) mm

APPLICATIONS

- Direct Thermocouple measurement
- Direct RTD measurement