

Specifications: GEC Model S16TC – 16 Channel Thermocouple Instrument

5/10/07

16 each type T female miniature thermocouple input connectors.

Temperature measurement range: -200 to +400 °C (-328 to 752 °F)

Operating Temperature: -10 to 50 °C (avoid condensation)

Resolution of temperature measurement: 0.01 °C (0.018 °F).

Accuracy of temperature measurement: When the instrument is operated in an ambient of 15 to 35 °C, instrument accuracies better than ± 0.1 °C (0.18 °F) can be attained over the measurement range of -10 to 70 °C. This specification includes all instrument errors including reference junction error.

Total system accuracies (including thermocouple wire error) better than ± 0.1 °C (0.18 °F) can be attained through software calibration of thermocouples by comparison with a known standard. Measurement accuracies better than ± 0.04 °C (0.07 °F) have been attained over certain temperature ranges.

Uniformity between thermocouples of 0.02 °C (0.036 °F) enables accurate measurements of small temperature differences. Built in auto zero eliminates system offset errors. Both 50 and 60 Hz. noise rejection are available.

Scan rate: 2 to 10 channels/second, depending on desired resolution.

Communications protocol: 9 pin female RS232 connector, optional USB adapter.

Case: Heavy diecast aluminum case with gray powdercoat finish.

Size: 3" H x 9" W x 5.5" D (7.62 cm. H x 22.9 cm W x 14.0 cm D).

Weight: 3.3 pounds (1.5 kg) Shipping Weight: 5 pounds (2.3 kg)

Every instrument includes a versatile and powerful Windows software package for display, plotting, logging, retrieval and analysis of data, a 6 ft. serial cable, and a 12 volt DC adapter.

Warranty: Full two year warranty against defects in materials or workmanship.

Options: Additional thermocouple channels, precision high accuracy (0.002 °C to 0.005 °C) high resolution (0.0002 °C) thermistor probes, 4 to 20 ma inputs, relative humidity inputs, custom thermocouple calibrations.