

Any Temp Sensor In. Benchtop Accuracy Out.



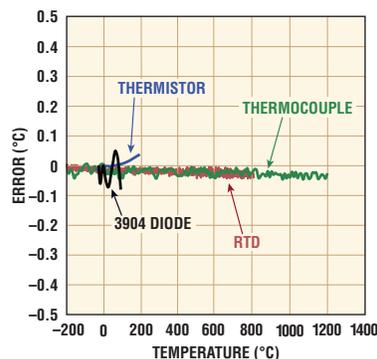
Multichannel Temperature Measurement System Features Direct Sensor Connections and Linearized Digital Output in °C

The LTC[®]2983 is a high precision digital temperature measurement system that integrates all of the necessary components to excite, calibrate, measure and digitize diodes, thermistors, thermocouples and RTDs. An SPI interface provides readout of temperature in °C and simple configuration of many convenient features, including automatic cold junction compensation, linearization coefficients, fault detection, and dual excitation current sources with automatic mismatch compensation, current reversal and current ranging.

▼ Features

- 0.1°C Accuracy and 0.001°C Resolution
- 20 Flexible Inputs Allow Interchanging Sensors without Hardware Modifications
- Measures Ground-Referenced Sensors
- Buffered Inputs Allow External Protection and Filtering without Droop Errors
- Includes 10ppm/°C Reference, Switching Networks, Current Sources, Three 24-Bit $\Delta\Sigma$ ADCs, RAM, ROM, and Sensor Linearization Circuitry
- Built-In Standard or Programmable Coefficients
- Simultaneous 50Hz/60Hz Rejection
- Automatic Burn Out, Short-Circuit and Fault Detection

LTC2983 Error Contribution



▼ Info & Free Samples

www.linear.com/product/LTC2983

1-800-4-LINEAR



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