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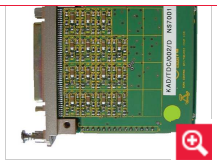
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Thermocouple ADC (reference compensation, 40Hz b/w) - 15ch at 512sps



Description

The KAD/TDC/002 is used to digitize up to 15 thermocouple channels and the compensation block temperature. (The compensation block refers to the double-density connector.)

The compensation block temperature is a signal indicating the temperature of the compensation block.

This signal is digitized and put to 2 x 65536 point linearization tables. One is used to produce a compensation value to add or subtract from the other 15 channels (this table is T/C type specific) and the other is used to scale the compensation block temperature between -40°C and 105°C.

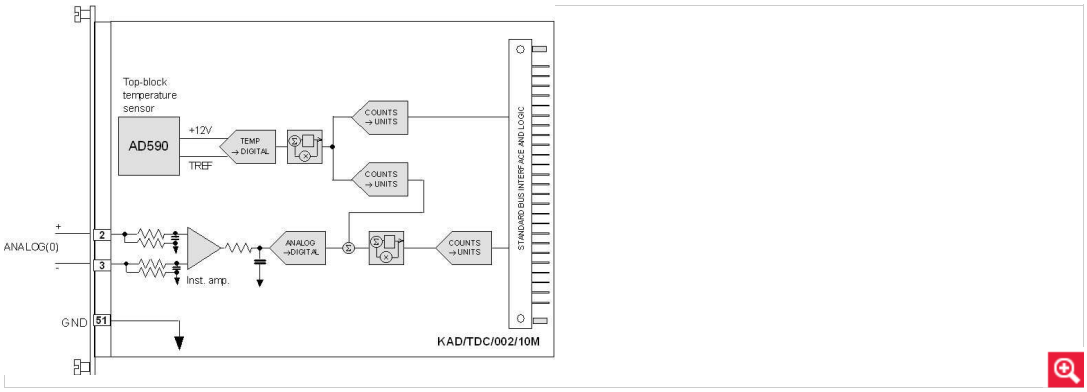
The compensation offset is removed from each of the T/C channels. Each T/C channel is then linearized using a 65536 point linearization table specific to the thermocouple type selected. Finally, all channels are scaled to the selected range.

Features

- 15 thermocouple (T/C) input channels
- ±5°C accuracy for K-type T/C
- Compensation block temperature measurement
- Programmable T/C type (per module)
- Digital reference junction compensation
- Up to 512 samples per second per channel
- Up to 40Hz bandwidth

Applications

- Temperature measurements



Compensation channel plus first of 15 T/C channels

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