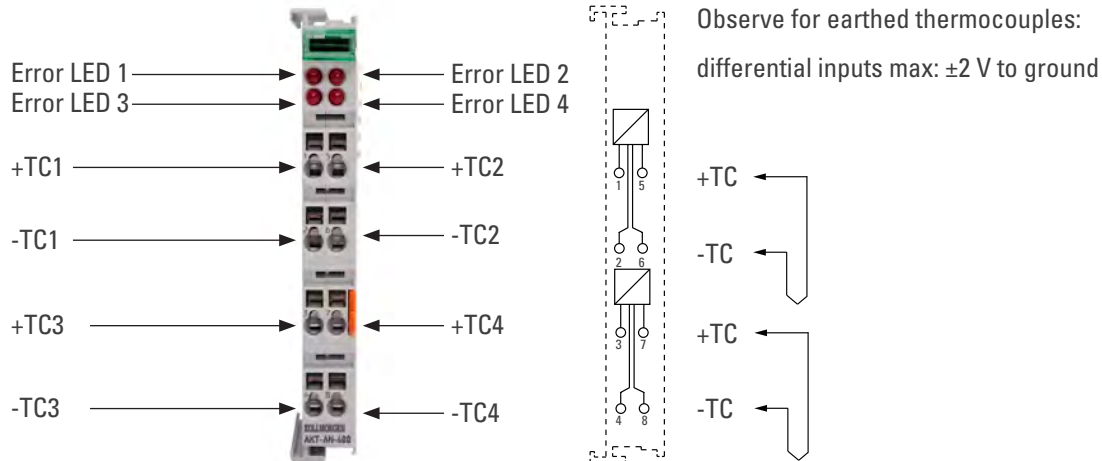


## 4-Channel Thermocouple Module

The analog input terminal allows four thermocouples to be connected directly. The Bus Terminal's circuitry can operate thermocouple sensors using the 2-wire technique. Linearization over the full temperature range, which can be selected freely, is realized with the aid of a microprocessor. The error LEDs indicate a broken wire. Compensation for the cold junction is made through an internal temperature measurement at the terminals. Can also be used for mV measurement.



Electrical and Mechanical Specification	AKT-AN-400-000
Number of inputs	4
Power supply	Via the standard-bus
Thermocouple sensor types	Types J, K, L, B, E, N, R, S, T, U (default setting type K), mV measurement
Connection Method	2-wire
Temperature range	In the range defined in each case for the sensor (default setting: type K; -100...+1,370 °C)
Resolution	0.1 °C per digit
Conversion time	~ 250 ms
Wiring fail indication	Yes
Measuring error	< ±0.5 % (relative to full scale value)
Electrical isolation	500 V <sub>rms</sub> (standard-bus / signal voltage)
Current consumption standard-bus	Typ. 75 mA
Bit width in the process image	Input: 4 x 16 bit data (4 x 8 bit control/status optional)
Configuration	No address setting, configuration via Bus Coupler or controller
Weight	75 g
Operating/storage temperature	0 ... +55 °C / -25 ... +85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	Conforms to EN 60068-2-6 / EN 60068-2-27/ 29
EMC immunity/emission	Conforms to EN 61000-6-2 / EN 61000-6-4
Protect. class/installation pos.	IP 20 / variable

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