

SIQUAD TC, TC8

Characteristics

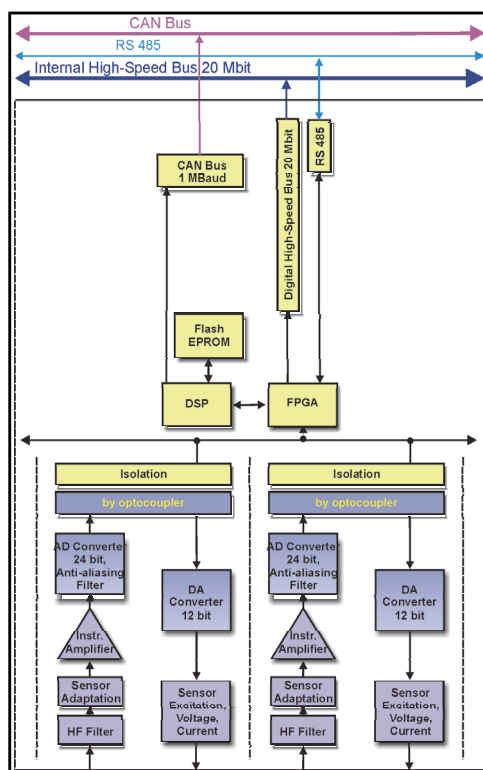
The SIQUAD **Thermocouple Amplifier** offers computer-controlled signal conditioning of thermocouples. It has 1 DSP per unit. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter setting is done with the software DaSoft. Signal filtering can be configured from 3..3000 Hz at 10 kS/s sample rate.



Technical Data

Channels / unit	4, isolated (8, isolated inputs with common ground)
AD converter	24 bit / channel
Sample rate	10 kHz (500 Hz for 8 channels)
Band width	3 kHz (150 Hz)
Analog output optional	± 10 V / 12 mA (short proof) 16 bit resolution
Digital output	SPI (internal), CAN
Input protection	± 5 V, ESD IEC 1000-4-2
Supply voltage	+5 V / 450 mA
Env. temperature	0..+50 °C
Range	-100 to +100, +200, +500, +1000 (1200) °C
Accuracy	± 0.2 % incl. CJC
TC types	J, K, others on request
Differential input	Yes
Terminal	Mini thermo sockets as per TC type

Block Diagram (exemplary for 2 channels)



Dimensions

19" plug-in unit, 3 U height, 5 U width, depth 160 mm

Ordering Codes

SIQUAD-TC4- 1. 2. 3.

1. Model	
J	Thermocouples type J
K	Thermocouples type K
N	Thermocouples type N
T	Thermocouples type T
2. Options range	
1200	Range 1200 °C (only type K)
3. Options output	
4 AO BNCR	4 analog outputs wired to back panel with BNC sockets
4 AO BNCF	4 analog outputs wired to front panel 10 U with BNC sockets parallel to input sockets

SIQUAD-TC8- 1. 2. 3.

1. Model	
J	Thermocouples type J
K	Thermocouples type K
N	Thermocouples type N
T	Thermocouples type T
2. Options range	
1200	Range 1200 °C (only type K)
3. Options output	
8 AO BNCR	8 analog outputs wired to back panel with BNC sockets