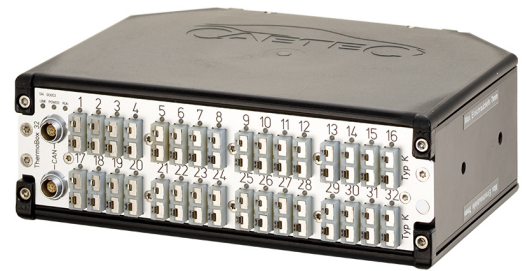


ThermoBox 32

32-channel thermocouple measurement inputs type K (NiCr/NiAl)

- Extender device for ARCOS data logger
- Stand alone operation without ARCOS data logger
- Cascading of several boxes supported
- Cold junction compensation per channel
- Status LED at each input channel
- Measurement data output to CAN and Ethernet
- Galvanic isolation (inputs, CAN, supply, enclosure)



Device	
Maximum input voltage (channel)	±60 V (indefinitely)
Channel sampling rates	1/ 2/ 5/ 10/ 20/ 50/ 100 Hz
Aggregate sample rate	3200 Hz
Voltage supply	6 ... 50 VDC
Supply voltage thresholds	Switch-on 6 ±0.3 VDC / Switch-off 6 ±0.3 VDC
Power consumption, typical	4.0 W
Working temperature range	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature range	-55 ... 125 °C (-67 ... 257 °F)
IP-Code	IP 40 (ISO 20653 - 2013)
Relative humidity	5 ... 98 %
Dimensions	W184 mm x H55 mm x D144 mm (7.24 in x 2.17 in x 5.67 in)
Weight	1500 g (3.31 lb)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO11898-2)
Test standards	AK-LV 01
Input sockets	Miniature TC connector (DIN IEC 584)
Galvanic isolation	
Input module power supply	±500 V (peak voltage)
Input CAN	±500 V (peak voltage)
Input enclosure	±500 V (peak voltage)
Input input	±500 V (peak voltage)
General channel properties	
A/D converter	16 bit (Sigma/Delta)
Sensor break detection	Permanently active
Channel LED	Available
Flashing mode of channel LED	Break detection - permanently active

Channel impedance	20 M Ω (active sensor break detection)
Hardware filter (fixed)	Butterworth 1. order and sync filter
Channel temperature	
Measurement range temperature	Typ K (NiCr/NiAl) -50 ... 1200 °C (-58 ... 2192 °F)
Accuracy at ambient temperature 25 °C	± 0.024 % for full measurement range
Drift for ambient temperature -40 ... 85 °C	± 10 ppm/K
Linearization of sensor characteristic line	Via NIST IST-90 thermocouple polynoms
Cold junction compensation (CJC)	PT100 for each input
Order code	
Code	103178