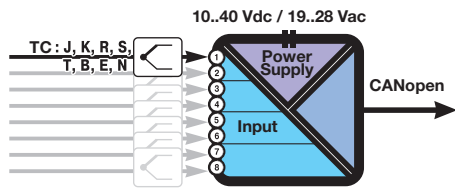




# ZC-8TC

## 8 CH THERMOCOUPLE (J,K,E,N,S,R,B,T) CANOPEN MODULE



ZC-8TC is an interface for Thermocouple sensors (J, K, E, N, S, R, B, T) and generic sensor with mV as standard output signal. The number of input is 8 and each input is independent from each other.

It's a CANopen device and can be connected into a CANopen network. A 6-way galvanic isolation among Power supply // input // RS485 circuits assures the integrity of your data (each couple of channels is isolated from the other circuits).

### TECHNICAL SPECIFICATIONS

General Data	
Power supply	10..40 Vdc; 19..28 Vac
Power Consumption	1 W
Galvanic isolation	1,5 kVac (6 way)
Input protection	Against ESD discharge up to 4 kV
Status indicators	Power, communication, fault input
Response time	< 28 ms
Accuracy	0,1%
A/D Resolution	15 bit
Thermal drift	< 100 ppm/°C
Dimensions (W x H x D)	17,5 x 100 x 112 mm
Enclosure, weight, colour	PBT, 140 g., black
Operating temperature	-10..+65 °C
Connections	Removable screw terminals IDC10 connector for Z-PC-DIN backplane RS232, front jack, speed 2400 Baud
Protection degree	IP20
Configuration	Dip Switches (baud rate, Node ID) - EDS file
Protocols supported	CAN bus standard (2.0A, 2.0B) CANopen (profile CiA 401 v.2.01) ModBUS RTU (through RS232)
CANopen max speed	1 Mbps
Conformity	CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1 CAN 2.0A, 2.0B - CiA 401 v.2.01
Input Data	
Nr channels	8 (thermocouples or mV)
Type	THERMOCOUPLE Type: J, K, E, N, S, R, B, T Tables EN 60584-1 (ITS 90) Span: -10,1..81,4 mV Impedance 10 MΩ Configurable fault
Canopen Features	
NMT	Slave
Error control	Node guarding
Node ID	Software, DIP switch
Nr PDO	RX 5
PDO modes	Event triggered, Synq (cyclic), Synq (acyclic)
PDO linking	yes
PDO mapping	variable
Nr SDO server	1
Emergency message	yes

### ORDER CODES

Code	Description
ZC-8TC	8 CH Thermocouple (J,K,E,N,S,R,B,T) CANopen module, 10..40 Vdc / 19..28 Vac

### ACCESSORIES & SOFTWARE

<b>Z-PC-DIN</b> Backplane for power & bus communication pg. 36	<b>Z-SUPPLY</b> Switching power supply pg. 36	<b>Z-8R-10A</b> 8-CH Relay interface, 10A pg. 36	<b>EASY SETUP</b> Plug&Play configuration software pg. 36

### SIMILAR PRODUCTS

<b>Z-8TC</b> 8-CH thermocouple input module / RS485 pg. 21	<b>ZC-4RTD</b> 4-CH RTD (Pt100, Ni100, Pt500, Pt1000) input CANopen module pg. 33	<b>ZC-8AI</b> Plug&Play configuration software pg. 31