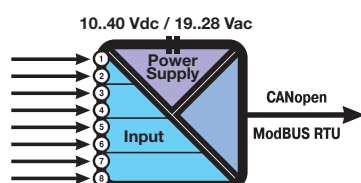




ZC-8AI

8 CH ANALOG INPUT (mA,V) / CANOPEN MODULE



ZC-8AI is used to interface analog inputs (Voltage or current, also with bipolar range) with CANopen system. The module is able to supply all 8 current loops at the same time, this is very useful for 2-wire sensors because the wiring does not need an external power supply. A 6-way galvanic isolation among Power supply // input (couples) // RS485 circuits assures the integrity of your datas.

TECHNICAL SPECIFICATIONS

General Data

Power supply	10..40 Vdc; 19..28 Vac
Power Consumption	5 W
Power transducers	22 mA, 8 sensors
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	0,05%
A/D Resolution	14 or 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

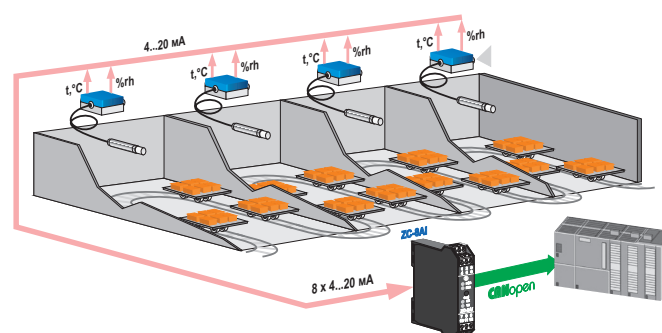
Input Data

Nr channels	8 (4 isolation zones)
Type	Voltage range: ± 10 V Current range: 0..20, 4..20 mA 2,3 wires sensor connection 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
Supported application layer	CiA 301 v4.02
Supported profile	CiA 401 v2.01

APPLICATION NOTE



ORDER CODES

Code	Description
ZC-8AI	8 CH analog input (mA,V) / CANopen module, 10..40 Vdc / 19..28 Vac

ACCESSORIES & SOFTWARE

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

SIMILAR PRODUCTS

ZC-8TC 8 CH thermocouple / CANopen pg. 34	ZC-4RTD 4 CH RTD input / CANopen pg. 33	Z-8AI 8 CH analog input (mA, V) / ModBUS pg. 17