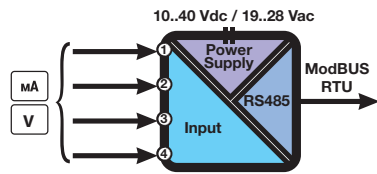




Z-4AI

4-CH ANALOG INPUT MODULE / RS485 MODBUS RTU



Z-4AI is used to interface analog inputs (Voltage or current, also with bipolar range) with Modbus system.

The module is able to supply all 4 current loops at the same time, this is very useful for 2-wire sensors because the wiring does not need an external power supply.

It's a ModBUS Slave and can be coupled with any ModBUS Master device. A 3-way galvanic isolation among Power supply // input // RS485 circuits assures the integrity of your data.

TECHNICAL SPECIFICATIONS

General Data

Power supply	10..40 Vdc / 19..28 Vac / 50-60 Hz
Power consumption	2,5 W
Isolation	1.500 Vac (3 way)
Power transducers	Yes
Status Indicators	Power supply, error, data transmission, data reception, input status
Protection Degree	IP20
Operating Temperature	-10..+65 °C
Dimension (W x H x D)	17.5 x 100 x 112 mm
Mounting	35 mm DIN rail guide

Communication, Memory Process

Interface	2 wire RS485
Speed	Up to 115.200 bps
Protocol	ModBUS RTU slave
Communication Time	< 10 ms (38400 baud)
Distance	Up to 1.200 m
Connectivity	Max 32 nodes
Data Memory	EEPROM for the configuration parameters, retention time 10 years

Signals

Channel Numbers	4
Input	VOLTAGE Bipolar with programmable FS at ± 2 Vdc, or ± 10 Vdc; input impedance: >100 k Ω
	CURRENT Bipolar with programmable FS at ± 20 mA.

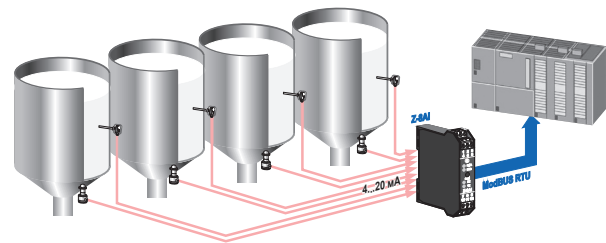
Programming

DIP switches	Baud rate, address, input type
Software	EASY Z-4AI (plug&play)

Standard

Approval	CE
Norms	EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1

APPLICATION NOTE



ORDER CODES

Code	Description
Z-4AI	4-CH analog input module / RS485 ModBUS RTU, 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	EASY SETUP Plug&Play configuration software pg. 36

SIMILAR PRODUCTS

Z-4RTD2 4-CH RTD input module / RS485 pg. 19	Z-4TC 4-CH thermocouple/ mV input module / RS485 pg. 20	Z-8AI 8-CH analog input module / RS485 pg. 17	Z-DAQ-PID 2-CH universal analog I/O module with PID control pg. 15