Z-4AI
4-CH ANALOG INPUT MODULE / RS485 MODBUS RTU

10..40 Vdc / 19..28 Vac

Power Supply
RS485
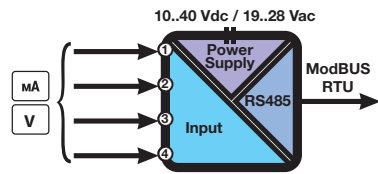Input
mA
V
ModBUS RTU

Z-4AI is used to interface analog inputs (Voltage or current, also with bipolar range) with Modbus system.
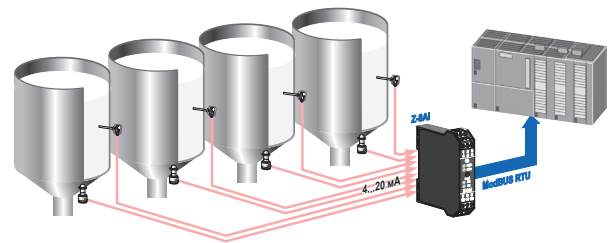The modules is able to supply all 4 current loops at the same time, this is very useful for 2-wire sensors because the wiring does not need an external power supply.
It's a ModBUS Slave and can be coupled with any ModBUS Master device. A 3-way galvanic isolation among Power supply // input // RS485 circuits assures the integrity of your datas.

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 kΩ 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	Z-SUPPLY	EASY SETUP
Backplane for power & bus communication	Switching power supply	Plug&Play configuration software
pg. 36	pg. 36	pg. 36

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