

KIA8

Analogue input module

Basic functions

- Analogue input module
- Module receives current analogue signals from the converter
- 8 differential analogue inputs with galvanic isolation between channels
- Galvanic isolation between input and power supply
- Module filters analogue inputs by time period
- Software current input range for each channel setting is independent
- Connection with other modules via RS485 bus
- LED indicator of the range overflow and underflow

Application

The analogue input module KIA8 receives the current analogue signals from the process and transmits them through the RS485 bus either to the SCADA directly or to the Atlas Max-RTL[®].

Design

Cabur CH boxes (dimensions WxDxH 24x85x121mm)

Connection

There are a 17-pin strip for introducing analogue inputs on the bottom, and a 3-pin strip for the RS485 bus on the top and a 2-pin strip for the power supply. Analogue inputs are galvanically isolated from each other.

Technical specifications

Operating temperature	-20 to 60 °C
Operating humidity	5 to 95% RH
Input resistance	50 Ohm
Current input types	4 to 20mA, 0 to 20mA, -20 to +20mA, 1 to 10mA, 0 to 10mA, -10 to 10mA, 0 to 5mA, -5 to 5mA
Power supply	5V DC
Consumption	max 100mA@5V



PIN Layout:

CON.1		
PIN	Signal name	Description
1	+IN1	+INPUT1
2	-IN1	- INPUT1
3	+IN2	+INPUT2
4	-IN2	-INPUT2
5	+IN3	+INPUT3
6	-IN3	-INPUT3
7	+IN4	+INPUT4
8	-IN4	-INPUT4
9	+IN5	+INPUT5
10	-IN5	-INPUT5
11	+IN6	+INPUT6
12	-IN6	-INPUT6
13	+IN7	+INPUT7
14	-IN7	-INPUT7
15	+IN8	+INPUT8
16	-IN8	-INPUT8
17	NC	Do not use

CON.2		
PIN	Signal name	Description
	RS485	
18	A	Reception/transmission+
19	B	Reception/transmission-
20	C	Joint point

CON.3	
PIN	Description
21	+5V
22	GND5V

INPUT CIRCUIT DIAGRAM:

