

### KNTC16

### Analog input module

#### Basic functions

- Analog input module
- Analog signals reception from NTC resistive encoders
- 16 analog inputs with joint ending
- Galvanic isolation between input and power supply
- Filtering analog inputs by time
- NTC resistive software setting input type for each channel independently
- Connection to other modules via RS485 bus
- Overrun and underrun range LED indication
- It is necessary to define a reference resistor (eg. KNTC16-20K is for NTC a resistor that has 25KΩ at 25°C)



#### Application

The KNTC16 analog input module receives analog resistance signals from the process and transmits the measured quantities via the RS485 bus either to SCADA directly or via the Atlas Max-RTL<sup>®</sup> module.

#### Design

Cabur CH boxes (dimensions WxDxH 24x85x121mm)

#### Connections

On the lower side, there are 17 pin switches for the analog inputs introduction, and on the upper side, there are 3 pin switches for the RS485 bus and 2 pin switches for power supply. The analog inputs are not galvanically isolated from each other.

#### Technical specifications

<b>Operating temperature:</b>	-20 to 60 °C
<b>Operating humidity:</b>	5 to 95% RH
<b>Measuring range:</b>	-50°C to 150°C
<b>Input types:</b>	13 types of NTC resistors
<b>Measurement accuracy:</b>	+/- 0.5 °C in total range
- power supply	5V DC
- consumption	max 100mA@5V

### Pin layout:

CON.1		
PIN	SIGNAL NAME	DESCRIPTION
1	IN1	INPUT1
2	IN2	INPUT2
3	IN3	INPUT3
4	IN4	INPUT4
5	IN5	INPUT5
6	IN6	INPUT6
7	IN7	INPUT7
8	IN8	INPUT8
9	IN9	INPUT9
10	IN10	INPUT10
11	IN11	INPUT11
12	IN12	INPUT12
13	IN13	INPUT13
14	IN14	INPUT14
15	IN15	INPUT15
16	IN16	INPUT16
17	COM	Common point of all inputs

CON.2		
PIN	SIGNAL NAME	DESCRIPTION
	RS485	
18	A	Receipt/delivery+
19	B	Receipt/delivery -
20	C	Common point

CON.3	
PIN	DESCRIPTION
21	+5V
22	GND