

## RTU7M AI-8T-I – Temperature Measuring Card

### General Description

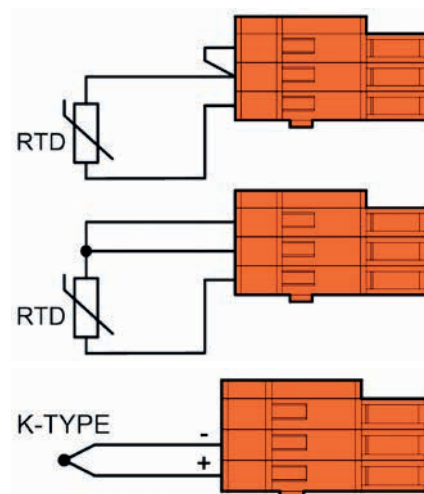
This card is designed for temperature measuring via RTD or thermocouples. The advantage is the possibility of simultaneous temperature measurement using different sensors. There are 8 independent measuring channels.

### Basic Features

- ❑ 8 inputs for temperature sensors,
- ❑ supported sensors: PT100, PT1000, Ni120, Thermocouple K,
- ❑ 2 or 3-wire sensors connection (3-wires eliminate the cable length influence).

### Typical Applications

- ❑ general temperature measuring in power industry applications,
- ❑ temperature check on voltage or current measuring sensors (provided by some type of sensors) – used for operating temperature check.



Different sensor types connection

### Technical Specification

Card	RTU7M AI-8T-I			
Number of inputs	8			
Input types	Differential inputs isolated from the rest of unit, 2.5 kV 1 minute			
Signal evaluation	Own processor, 20-bit A/D converter			
Measured value	Temperature			
Sampling	9 Hz (all sensors)			
Consumption	1.6 W			
Connectors	8EDGK-2.50-03P-15			
Wire diameter	0.2 ÷ 1.5 mm <sup>2</sup>			
Operating temperature	-20 ÷ 65 °C			
Storage temperature	-30 ÷ 85 °C			
Sensor type	PT100	PT1000	Ni120	Thermocouple K
Nominal range	-130 ÷ 130 °C	-130 ÷ 130 °C	-80 ÷ 130 °C	-130 ÷ 130 °C

Front panel of RTU7M AI-8T-I

