

Analog-to-digital converter of current and voltage signals to digital signals, MODBUS protocol TCP/RS485, type AMC8R

Application

The AMC8R is designed for conversion of analog signals from 8 channels to digital signals available on two RS485 interfaces and one Ethernet RJ45 as protocol MODBUS TCP.

Specification

The input quantities can be: 0-10V and 0-2V voltages, 4-20mA currents, relays contacts. The type of input signal is chosen by using jumper inside the enclosure and additionally in configuration software which also allows setting of threshold values in specified channels (two threshold values per channel) and setting of digital transmission parameters.

The converter has 8 three-colour signaling LEDs. Each LED corresponds to a particular channel and its colour signals the level of the measured value.

The circuit fault of at least one input activates OC circuit fault and the diode extinction. By analogy the exceeding the threshold value of any input results in setting the OC of threshold value and changing green colour of the diode to (yellow - alert, red - alarm).

Technical data

METROLOGICAL

Input:

8x (4-20mA or 0-10V or 0-2V or relays contacts)

Output:

8x 3-color LED, RJ45, RS485, 3x OC

Input resistance:

- 100Ω for current input
- 250kΩ for voltage input 0-10V
- 50kΩ for voltage input 0-2V

Basic error: 0,1%

ELEKTRICAL

Power supply: +24VDC ±10%,
Power consumption: < 2 W



ENVIRONMENTAL

Ambient temperature: -20°C to +70°C
Relative humidity: 90% non-condensing

MECHANICAL

Weight: 150g
Enclosure material: ABS, mounted on TS35 rail
Dimensions: 22,5x99x114mm
Protection rating: IP40

Ordering information

AMC8R – specify type of inputs.

In order to obtain the converter with a proper set up, please specify in the order what the default function is to be applied to each converter channel (4-20mA, 0-10V, 0-2V or relays contacts input)