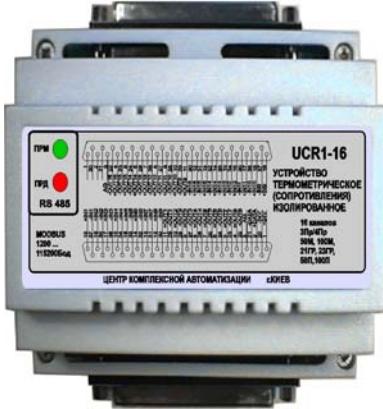


4.18. TEMPERATURE METERS UCR 1-8, UCR 1-16

They are intended for remote collection of the analog signals of resistance thermal converters in explosion-hazardous premises. The current resistance values and the corresponding current temperature values are stored in the internal memory registers and, at the request of a master device (for example, PC), are transmitted to the communication channel with the physical characteristics of RS-485 and the logic protocol MODBUS.



The meters contain 8 (UCR 1-8) and 16 (UCR 1-16) channels, respectively, for measuring and converting analog signals of all known low-resistivity resistance thermometers into a digital code of the temperature at a three- or four-wire connection.

The controller provides power to the sensors with a current of 2 mA. The graduation and connection type in each channel are set individually.

Technical specifications:

Signal-conversion time - 80 ms/channel

Frequency band of the input filter - 25 Hz

Error - $\pm 0.1^{\circ}\text{C}$