

## Measuring instantaneous values of current **MTD32**

- Purpose-measurement of instantaneous values of output signals of current sensors
- The range is from 0 to 20 mA, 0 to 5 mA
- Calibrate the zero offset of each channel



The MTD32 is designed to measure instantaneous current values over 32 channels.

MTD32 mezzanine performs measurements in the following modes:

- "Once" - a single measurement of the sequence of channels specified by the user is performed;
- "Block" - measurements are performed until a predetermined number of samples (results) of channel sequences specified by

the user are received;

- "Continuous" - measurements are performed according to a user-defined sequence in a continuous cycle until a stop command is received.

The mezzanine measuring chains are galvanically isolated from the housing. Galvanic isolation voltage of at least 150 V. Resistance of galvanic isolation of at least 20 MOhm

### Specifications

Number of measuring channels 32	Measurement ranges of instantaneous current values: <ul style="list-style-type: none"> <li>• from 0 to 20 mA;</li> <li>• from 0 to 5 mA.</li> </ul>
The limits of the permissible basic relative error of measurement of instantaneous current values at the minimum sampling period and at an ambient temperature of $+(20 \pm 2)^\circ\text{C}$ should be, %: $\pm[0,03 + 0,015(I_m/I_x - 1)]$ for the range from 0 to 20 mA; $\pm[0,04 + 0,015(I_m/I_x - 1)]$ for the range from 0 to 5 mA, where $I_m$ is the value of the upper limit of the range, and $I_x$ is the measured value	The maximum permissible current value on the mezzanine measuring shunts is not more than 30 mA
	The period for obtaining the measurement results is set the same for all channels participating in the measurements, in the range from 302 $\mu\text{s}$ to 16.777214 in increments of 1 $\mu\text{s}$
	Measuring shunt resistance $240.0 \pm 0.1 \text{ Ohm}$