



Battery current source BIT-2-TK is designed for the generation of standard direct current/voltage signals for calibration of digital measuring devices IP-4-TK, IP-5-TK, IP-6-TK, IP-6M-TK, IP-7-TK or other types of devices, that use the value of direct current/ voltage as an input signal.

The battery current source can be used to simulate thermocouple signals, test the communication lines between the primary transducer (sensor) and the device, and also to monitor the operability of the device under test during operation.

- Programmatically setting up output signal type selection (current or voltage).
- Possibility to specify several user scales, corresponding to the range of the current/voltage output signal.
- Changing the value of the output signal in mA/mV/V or in units of the user scale.
- Power supply by batteries or by AC/DC adapter.
- Automatic batteries charge control.
- Supplied with AC/DC adapter 220VAC / 12VDC and with battery AAA type.

SPECIFICATION

- Output current signal range, mA..... 0..5; 4..20; 0..20
- Output voltage signal range (depending on the modification):
 - 0..40 mV;
 - 0..10 V.
- Absolute error of the formation of current signal, μ A, up to..... ± 10
- Relative error of the formation of voltage signal, %, up to..... $\pm 0,5$
- Load resistance (including communication lines):
 - for current output, Ohm, up to..... 500
 - for voltage output, kOhm, up to..... 10
- Power supply, VDC:
 - autonomous (4 AAA batteries)..... 4,4..7,0
 - stationary..... 10..30
- Average battery life time not less than, h..... 4
- Current consumption:
 - autonomous, mA, up to 100
 - stationary charging, mA, up to..... 400
- Operating temperature range $+5^{\circ}\text{C}..+50^{\circ}\text{C}$
- Dust and moisture protection..... IP41

ORDERING DESIGNATION

Battery current source **BIT-2-TK-XX**, where

XX – upper limit of output voltage signal:

“10” – from 0 to 10 V;

“40” – from 0 to 40 mV.

Example. Battery current source **BIT-2-TK-40** – battery current source with output current signal 0..20 mA and output voltage signal 0..40 mV.