



Digital measuring device VA-03-TK is designed for continuous voltage drop measuring on instrument shunt in single- or three-phases alternating current circuits.

According to modification device can transfer measuring results via RS-485 interface (Modbus RTU protocol).

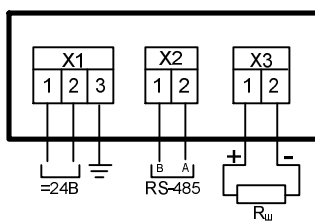
- Single-channel single-range device.
- Nominal shunt current setting.
- Measured value displaying according to nominal shunt current in A or kA.
- Voltage signal out of range diagnostic.
- Different modifications by overall dimensions, indicator digits number and availability of RS-485 interface (Modbus RTU protocol).
- LED green indicator with 14 or 20 mm symbols height.

SPECIFICATION

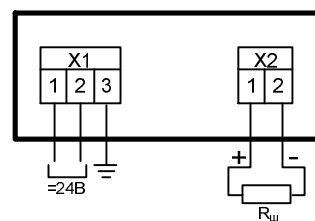
- Nominal shunt voltage, mV 100
- Direct-current voltage measuring range, mV 0.8..180
- Voltage measuring error, %, up to
 - (0,8..90) mV range reduced error ±0.5
 - (90.01..180) mV range reduced error ±1.0
- Devices withstand overload of 500% from nominal input signal during 1 min.
- Input resistance, kOhm, up to..... 10
- Less digit value 0.001; 0.01; 0.1; 1
- Baudrate (for modification with RS-485), kbps 9.6; 19.2; 38.4; 57.6; 115.2

Supplies with remote console for device setting up. Settings are saved in non-volatile memory.

WIRING DIAGRAMS



Wiring diagram with RS-485 interface



Wiring diagram without RS-485

SPECIFICATION

- Operating temperature range +5°C ..+50°C
- Dust and moisture protection..... IP41
- All circuits are galvanic isolated from each other
- Power supply24VDC
- Power consumption, up to..... 5
- Overall dimensions (W×H×D):
 - for modification **VA-03-TK-K1-Y** 95×47×120
 - for modification **VA-03-TK-K2-Y, VA-03-TK-K3-Y** 72×72×120

Digital measuring device **VA-03-TK-XX-Y**, where

XX – housing type:

- «K1» – device with 4-digits indicator with 20 mm symbol height and dimensions 95×47×120 mm;
- «K2» – device with 3-digits indicator with 20 mm symbol height and dimensions 72×72×120 mm;
- «K3» – device with 4-digits indicator with 14 mm symbol height and dimensions 72×72×120 mm.

Y – interface RS-485 availability:

- «1» – modification with RS-485 interface, Modbus RTU protocol;
- no marking - modification without RS-485 interface.

Example. Digital measuring device **VA-03-TK-K-1** – digital measuring device with 4-digits indicator with 20 mm symbol height and RS-485 interface.

