



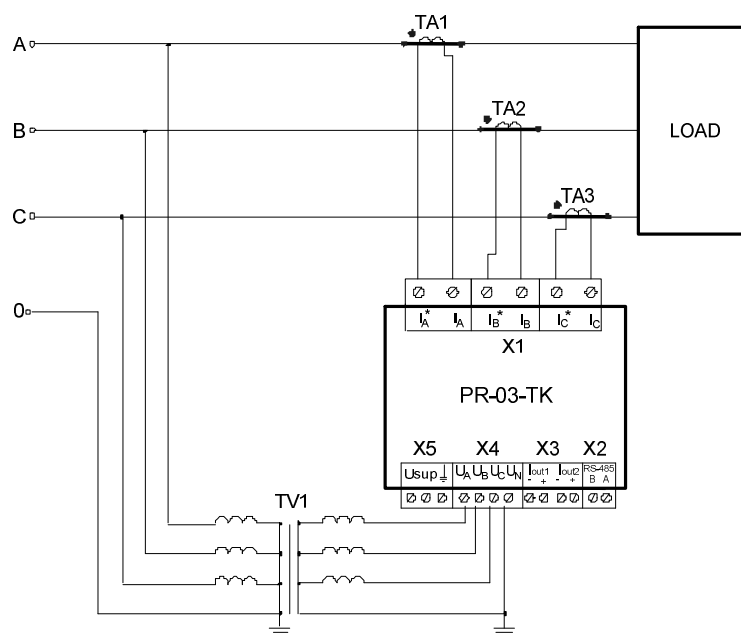
Measuring transmitter PR-03-TK is designed for continuous measurement three-phase network with neutral parameters, transferring results via RS-485 interface (protocol Modbus RTU), and converting to two unified current outputs following parameters: currents and voltages on two phases, active, reactive, and total power, power factor.

- Measuring line voltages and currents on two phases.
- Programmatically setting up nominal current on measuring inputs.
- Active, reactive, total power and power factor calculation by three wattmeters method.
- Two galvanic isolated unified current outputs.
- Nominal current value programmatically setting up for each current output.
- RS-485 interface, Modbus RTU protocol.
- Setting up via control unit PN-01-TK or special software via RS-485 interface.

SPECIFICATIONS

- Nominal input values:
 - voltage, V $100/\sqrt{3}$
 - current, A 0.5; 1; 2.5; 5
- Measured values limits:
 - voltage lower bound, V $80/\sqrt{3}$
 - voltage upper bound, V $120/\sqrt{3}$
 - current lower bound, A $0,01 \times I_{NOM}$
 - current upper bound, A $1,2 \times I_{NOM}$
- Unified current output ranges, mA:
 - -5..0..5;
 - 0..2.5..5;
 - 0..5;
 - 0..20;
 - 4..20.
- Measured value to digital signal transformation reduced error, %, up to $\pm 0,5$
- Measured value to current output transformation reduced error, %, up to $\pm 0,5$
 - for 0..20, 4..20 mA ranges $\pm 0,5$
 - for 0..5, -5..0..5, 0..2.5..5 mA ranges $\pm 1,0$
- Baud rate, kbps 9.6; 19.2; 38.4; 57.6; 115.2





ADDITIONAL INFORMATION

- Operating temperature range +5°C ..+50°C
- Dust and moisture protection..... IP41
- Power supply according to modification:
 - (70..300) VDC; (50..250) VAC, frequency (50±1) Hz;
 - (24±4) VDC.
- Current measuring circuit is galvanic isolated from voltage measuring circuit. Two current outputs are galvanic isolated to each other. RS-485 is galvanic isolated from all input circuits.
- Power consumption, VA, up to 4
- Overall dimensions (W×H×D), mm 125×60×200

ORDERING DESIGNATION

Measuring transmitter **PR-03-TK-XXX-Y**:

XXX – power supply:

“24V” – 24 VDC;

“220V” – (70..300) VDC; (50..250) VAC, 50 Hz.

Y – modification:

“U” – modification without current outputs;

no mark – modification with current outputs.

