

P43 PROGRAMMABLE TRANSDUCER

3-phase transducer of power network parameters

P43111100

P43 Trans, 1A, 3 x 57.7/100V, 85-253V ac/dc, 4 x Relays

- Inputs for monitoring 3 phase power networks
- Suitable for balanced or unbalanced systems
- 4 programmable analogue outputs -20 - 0 - +20mA
- Pulse output for consumption monitoring



PRODUCT DESCRIPTION

The P43 transducer is a programmable digital instrument destined for measurement and parameter conversion of 3 or 4-wires power networks, in balanced and unbalanced systems.

It ensures the measurement and conversion of measured values up to 4 standard analog current signals. The value of each measured quantity can be transmitted to the master system by the RS-485 or USB interface. Two relay outputs signal the overflow of selected quantities, and the pulse output can be used for the consumption monitoring of the 3-phase active energy.

Maximal and minimal values are measured for all quantities. Additionally, there is the possibility to accommodate the transducer to external measuring transformers. The actualization time of all available quantities does not exceed 1 second.

All quantities and configuration parameters are accessible through the RS-485 interface and the USB interface. Transducer output signals are galvanically isolated from the input signal and the supply. The transducer housing is made of a self-extinguishing plastic. Outside the transducer, there are socket-plug screw terminal strips.

Quantities measured and calculated by the transducer:

- phase voltages U_1 , U_2 , U_3
- phase-to-phase voltages U_{12} , U_{23} , U_{31}
- 3-phase mean voltage U
- phase-to-phase mean voltage U_{PP}
- three-phase mean current I
- phase currents I_1 , I_2 , I_3
- phase active powers P_1 , P_2 , P_3
- phase reactive powers Q_1 , Q_2 , Q_3
- phase apparent powers S_1 , S_2 , S_3
- phase active power factors Pf_1 , Pf_2 , Pf_3
- reactive/active ratio of power factors $tg\phi_1$, $tg\phi_2$, $tg\phi_3$
- three-phase mean power factors Pf , $tg\phi$
- three-phase active, reactive and apparent powers P , Q , S
- active mean power (e.g. 15 min.) P_{av}
- three-phase active and reactive energy E_{pt} , E_{qt} ,
- frequency f

Please refer to the [data sheet](#) for ordering keys and [contact us](#) for more information.

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