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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 upto 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.

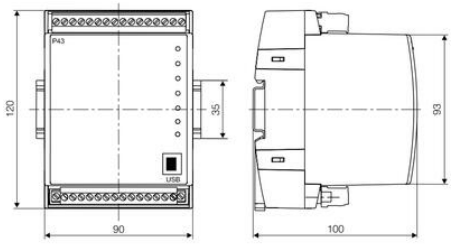
Maximal and minimal values are measured for all quantities. Additionally, there is the possibility to accommodate the transducer to external measuring transformers. The actualization time of all available quantities does not exceed 1 second.

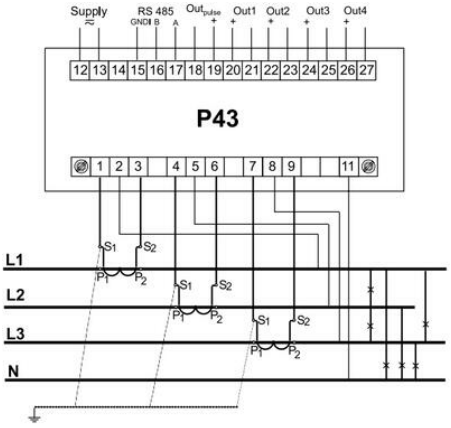
All quantities and configuration parameters are accessible through the RS-485 interface and the USB interface. Transducer output signals are galvanicaly isolated from the input signal and the supply. The transducer housing is made of a self-extinguishing plastic. Outside the transducer, there are socket-plug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

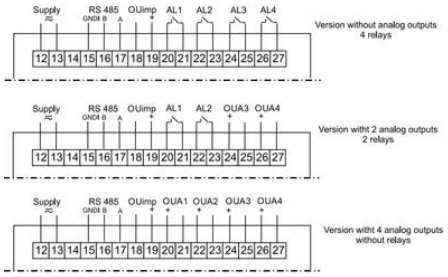
Quantities measured and calculated by the transducer:
• phase voltages U1, U2, U3
• phase–to-phase voltages U12, U23, U31
• 3-phase mean voltage U
• phase-to-phase mean voltage UPP
• three-phase mean current I
• phase currents I1, I2, I3
• phase active powers P1, P2, P3
• phase reactive powers Q1, Q2, Q3
• phase apparent powers S1, S2, S3
• phase active power factors Pf1, Pf2, Pf3
• reactive/active ratio of power factors tgϕ1 ,tgϕ2 ,tgϕ3
• three-phase mean power factors Pf, tgϕ
• three-phase active, reactive and apparent powers P, Q, S
• active mean power (e.g.15 min.) Pav
• three-phase active and reactive energy Ept, Eqt,
• frequence f

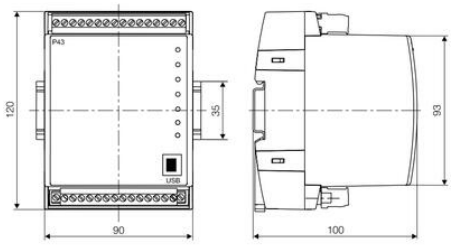
Please refer to the data sheet for ordering keys and contact us for more information.

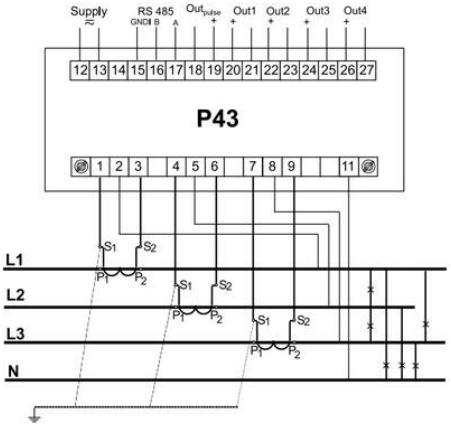
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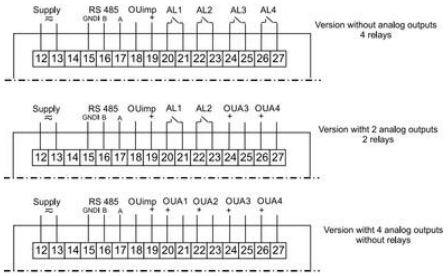

P43
USB
120
35
90
93
100


Supply
RS 485
Out pulse
Out1
Out2
Out3
Out4
GND
B
A
+
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
P43
1 2 3 4 5 6 7 8 9 11
L1
L2
L3
N
S1
S2
P1
P2


Supply
RS 485
OUimp
AL1
AL2
AL3
AL4
OUA3
OUA4
OUA1
OUA2
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Version without analog outputs
4 relays
Version witht 2 analog outputs
2 relays
Version witht 4 analog outputs
without relays


P43
USB
120
35
90
93
100


Supply
RS 485
Out pulse
Out1
Out2
Out3
Out4
GND
B
A
+
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
P43
1 2 3 4 5 6 7 8 9 11
L1
L2
L3
N
S1
S2
P1
P2


Supply
RS 485
OUimp
AL1
AL2
AL3
AL4
OUA3
OUA4
OUA1
OUA2
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Version without analog outputs
4 relays
Version witht 2 analog outputs
2 relays
Version witht 4 analog outputs
without relays