

External Features

Overall dimensions	96 x 120 x 100 mm	fixing on a 35mm DIN rail
Weight	0.3 kg	
Protection grade	for casing: IP40	for terminals: IP10

Rated Operating Conditions

Supply voltage	85 .. 253 V a.c. , 40 .. 400 Hz, 90 .. 320 V d.c. or 20 .. 40 V a.c., 40 .. 400 Hz, 20 .. 60 V d.c.	Power input ≤ 6 VA
Power input	in voltage circuit ≤ 0.05 VA	in current circuit ≤ 0.05 VA
Input signal	<ul style="list-style-type: none"> 0 .. 0.005 .. 1.2In; 0.05 .. 1.2 Un for measurement of current and voltage; 0 .. 0.1 .. 1.2In; 0 .. 0.1 .. 1.2Un for measurement of coefficients Pf_i, $t\phi_i$ 	<ul style="list-style-type: none"> signal frequency 47 .. 63 Hz sinusoidal signal (THD ≤ 8%)
Power factor	-1 .. 0 .. 1	
Analog outputs	-24 .. -20 .. 0 .. 20 .. 24 mA	
Temperature	ambient: -10...23...55°C	storage: -30...70°C
Humidity	25 .. 95%	inadmissible condensation
Additional error (in % of the intrinsic error)	from output signals frequency < 50%	from ambient temperature changes < 50%/ 10%
Operating position	any	
External magnetic field	0 .. 400 A/m	
Short duration overload (5 s)	voltage input: 2 Un (max. 1000 V)	current input: 10 In
Admissible peak factor	current intensity: 2	voltage: 2

Safety and Compatibility Requirements

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic	acc. to EN 61010-1
Pollution level	2	
Installation category	III	acc. to EN 61010-1
Maximal phase-to-earth voltage	300 V	
Altitude a.s.l.	< 2000 m	

Additional Errors in % The Intrinsic Error

From frequency of input signals	< 50%
From ambient temperature changes	< 50%/ 10%
For THD > 8%	< 100%

Connection Diagram

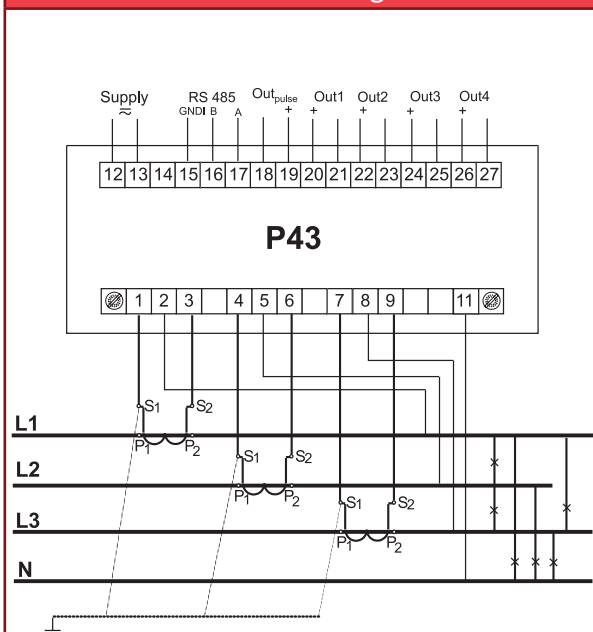


Fig. 1 Exemplary connection diagram for 4-wire network.

Ordering

	P43 -	X	X	X	X	XX	X	X
Current input In:								
1 A (X/1)		1						
5 A (X/5)		2						
Voltage input (phase/phase-to-phase) Un:								
3 x 57.7/100 V		1						
3 x 230/400 V		2						
Supply voltage:								
85..253 V a.c., 90..320 V d.c.		1						
20..40 V a.c., 20..60 V d.c.		2						
Output type:								
without analog outputs, 4 relays		1						
2 analog outputs, 2 relays		2						
4 analog outputs, without relays		3						
Version:								
standard						00		
custom-made*						XX		
Language:								
Polish							P	
English							E	
other							X	
Acceptance tests:								
without extra quality requirements								0
with an extra quality inspection certificate								1
acc. to customer's requirements*								X

* version code will be established by the manufacturer

Example of order:

The code: **P43 - 2 2 1 3 00 E 7** means:

- P43** - transducer of P43 type
- 2** - input current: 5 A
- 2** - input voltage: 3 x 230/400 V
- 1** - supply voltage: 85..253 V a.c., 90..320 V d.c.
- 3** - 4 analog outputs, without relays
- 00** - standard version
- E** - English language
- 7** - with an extra quality inspection certificate.

See Also



Current transformers.



Analysers of network parameters ND1.



Meter of network parameters N13.

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