

P30P TRANSDUCER OF 1-PHASE POWER NETWORK PARAMETERS

OUTPUTS

Output type	Properties	Remarks
Analog OUT1, OUT2 (1 or 2 outputs - depends on transducer version)	OUT1 current: 0/4...20 mA, load resistance ≤ 500 Ω voltage: 0...10 V, load resistance ≥ 500 Ω	accuracy class 0.1
	OUT2 current: 0/4...20 mA, load resistance ≤ 250 Ω voltage: 0...10 V, load resistance ≥ 500 Ω	accuracy class 0.5
Relay OUT2,OUT3 (1 or 2 outputs - depends on transducer version)	1 or 2 relays; voltageless contacts – NO – maximum load 5A 30V d.c., 250V a.c.	
Additional supplying output OUT3	24 V d.c. / 30 mA (optional)	

DIGITAL INTERFACE

Interface type	Properties	Remarks
Ethernet 10/100 Base-T (optional)	Modbus TCP/ IP HTTP, FTP	www, ftp server, client DHCP
RS-485	Modbus RTU: 8N2, 8E1, 8O1, 8N1 Address 1...247	baud rate: 4.8, 9.6, 19.2, 38.4, 57.6, 115.2, 230.4, 256 kbit/s

EXTERNAL FEATURES

Overall dimensions	45 120 100 mm	
Weight	< 0.25 kg	
Protection grade	for housing: IP40/ IP30	for terminals: IP20
Readout field	LCD 2 x 8 characters with LED backlight	

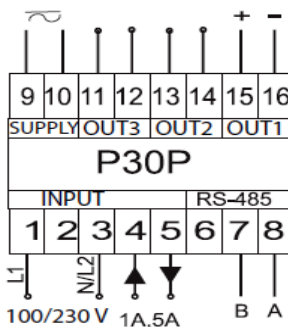
RATED OPERATION CONDITIONS

Supply voltage	• 85...253 V a.c., 85...300 V d.c. • 20...40 V a.c., 20...60 V d.c.	power consumption 5 VA
Temperature	ambient: -25...+55°C	storage: -30...+70°C
Humidity	25...95 %	inadmissible condensation
Working position	any	

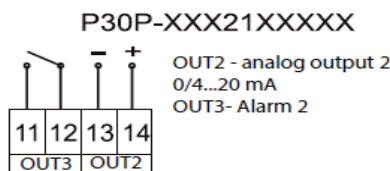
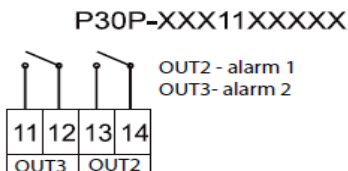
SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic / reinforced (see user's manual)	acc. to EN 61010-1
Pollution level	2	
Installation category	III for input voltage up to 300 V d.c., with additional resistance D5,	
	II for input voltage 600...1000 V d.c. with additional resistance D5	acc. to EN 61010-1
Maximal phase-to-earth voltage	• for supply and input circuits 300 V	
	• for other circuits 50 V	
Altitude above sea level	< 2000 m	

CONNECTION DIAGRAM



SUPPLY - supply
OUT2 - output no.2 (alarm or analog output)
OUT3 - output no.3 (alarm or supplying output 24V)
OUT1 - main analog output no.1
INPUT - measuring input
RS-485 - interface RS-485



SEE ALSO:



transformers



software.

P30P TRANSDUCER OF 1-PHASE POWER NETWORK PARAMETERS

CONNECTION DIAGRAM



3-phase power network meter/analyzer -ND1.



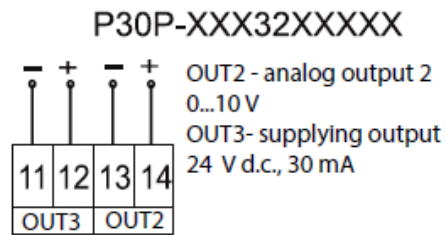
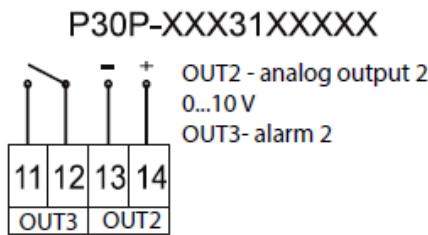
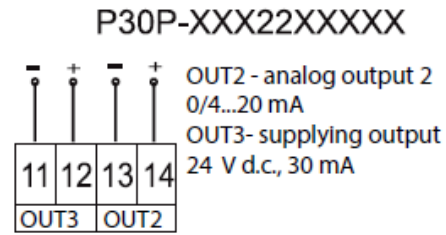
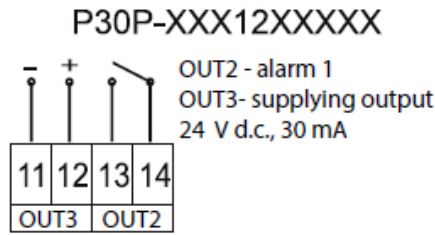
3-phase power network meter - ND20.



Analog meters

For more information about ST products please visit our website:
www.sifamtinsley.com

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ORDERING

P30P -	X	X	X	X	X	X	XX	X	X
voltage 100 V. current 1/5 A	1								
voltage 230 V. current 1/5 A	2								
current (0/4...20 mA)		1							
voltage (0...10 V)		2							
without			0						
with external SD/SDHC card			1						
with Ethernet interface and archive file system memory			2						
relav A1. 5A 30V d.c.. 250V a.c.				1					
analog current output (0/4...20 mA)				2					
analog voltage output (0...10 V)				3					
relav A2. 5A 30V d.c.. 250V a.c.					1				
power output 24 V d.c. / 30 mA					2				
85...253 V a.c.. 85...300 V d.c.						1			
20...40 V a.c.. 20...60 V d.c.						2			
standard								00	
custom-made*								XX	
Polish									P
English									E
other*									X
without extra requirements									0
with an extra quality inspection certificate									1
acc. to customer's request*									X

* after agreeing with the manufacturer

Order Example :

P30P - 11112100E1 means the transducer P 30 P in standard version with: input range 100 V and 1/5 A with analog current output 0/4...20 mA, external SD/SDHC card, relay and power output 24 V/30 mA, supply 85...235 V a.c./d.c. , user's manual in English and an extra quality inspection certificate.