

P30H TRANSDUCER OF D.C. CIRCUITS PARAMETERS WITH DATA RECORD AND ETHERNET

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 –maximun load 5A 30V d.c., 250V a.c.	
Additional supplying output OUT3	24 V d.c. / 30 mA (option)	

DIGITAL INTERFACE

Interface type	Properties	Remarks
Ethernet 10/100 Baste-T (option)	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	

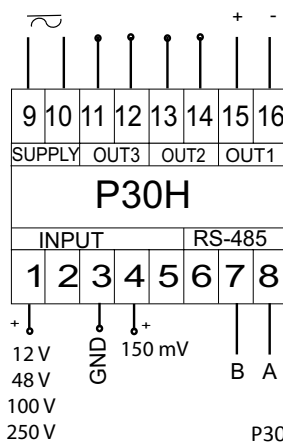
RATED OPERATION CONDITIONS

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...23...+55°C	storage: -30...+70°C
Humidity	25...95 %	inadmissible condensation
Working position	any	

SAFETY AND COMPATIBILITY REQUIREMENTS

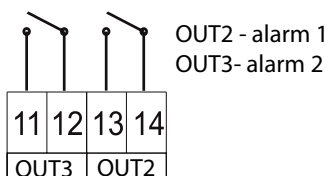
Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic / reinforced (see user's manual)	acc. to EN 61010-1
Pollution level	2	
Installation category	III for input voltage up to 300 V d.c., III for input voltage 300...600 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

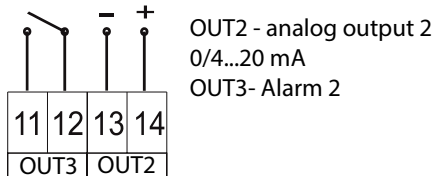


SUPPLY - supply
 OUT2 - output no.2 (alarm or analog output)
 OUT3 - output no.3 (alarm or supplying output 24V)
 OUT1 - main analog output no.1
 INPUT - measuring input
 RS-485 - interface RS-485

P30H-XX11XXXXX



P30H-XX21XXXXX



SEE ALSO:



Screen recorder KD8 with touch panel - 3 or 6 channels - RS-485 interface.



Programmable digital meter of temperature, resistance and standard signals N30U.



Software LUMEL - PROCES.

P30H

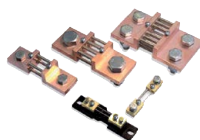
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CONNECTION DIAGRAM

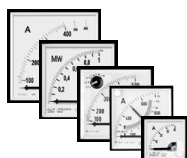
SEE ALSO:



Temperature and d.c. standard signals universal digital meter with OLED - N21 type.



Shunts class 0.5



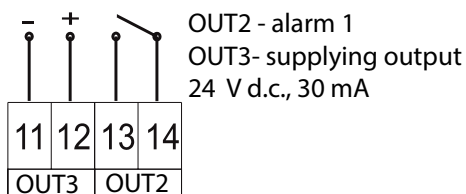
Analog meters

For more information about LUMEL products please visit our website:
www.lumel.com.pl

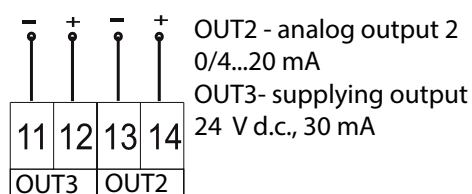
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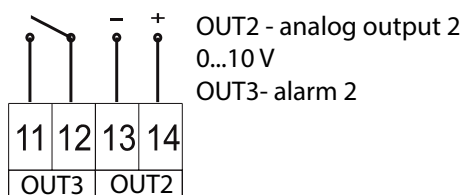
P30H-XX12XXXXX



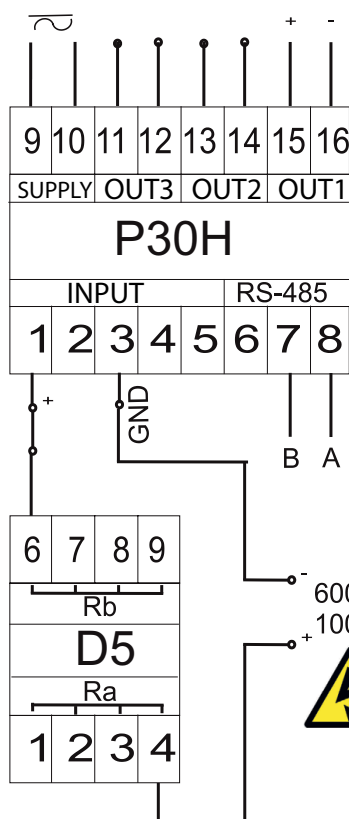
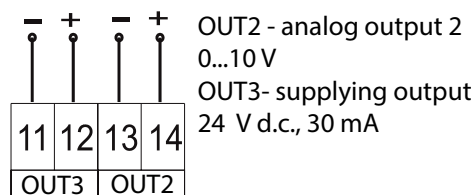
P30H-XX22XXXXX



P30H-XX31XXXXX



P30H-XX32XXXXX



indirect voltage measurement 600 V, 1000 V

ORDERING

Transducer P30H -	X	X	X	X	X	XX	X	X
Analog output OUT1:								
current (0/4...20 mA)	1							
voltage (0...10 V)	2							
Additional equipment:								
without	0							
with external SD/SDHC card	1							
with Ethernet interface and archive file system memory	2							
Output OUT2:								
relay A1, 5 A 30 V d.c., 250 V a.c.	1							
analog current output (0/4...20 mA)	2							
analog voltage output (0...10 V)	3							
Output OUT3:								
relay A2, 5 A 30 V d.c., 250 V a.c.	1							
power output 24 V d.c. / 30 mA	2							
Supply:								
85...253 V a.c., 85...300 V d.c.	1							
20...40 V a.c., 20...60 d.c.	2							
Version:								
standard							00	
custom-made*							XX	
Language:								
Polish								P
English								E
other*								X
Acceptance tests:								
without extra requirements								0
with an extra quality inspection certificate								1
acc. to customer's request*								X

* after agreeing with the manufacturer

Order example:

The code **P30H-111210E1** means transducer in standard version with analog current output, with external SD/SDHC card, with relay alarm no.1, with power output 24 V/30mA, with supply 85...235 V a.c./d.c., in English, with an extra quality inspection certificate.

Additional resistance D5 -	X	X	X
Measuring range in set with P30H:			
600 V	1		
1000 V	2		
Language:			
Polish			P
English			E
other*			X
Acceptance tests:			
without extra requirements			0
with an extra quality inspection certificate			1
acc. to customer's request*			X

* after agreeing with the manufacturer

Order example:

The code **D5-2E1** means additional resistance D5 with measuring range 1000 V, in English, with an extra quality inspection certificate.

SEE ALSO:



Transducer of 1-phase power network parameters - P30P.



3-phase power network meter - ND20.



Current transformers

For more information about LUMEL products please visit our website: www.lumel.com.pl

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