

# **P20Z** TRANSDUCER OF RMS CURRENT OR VOLTAGE

### INPUTS:



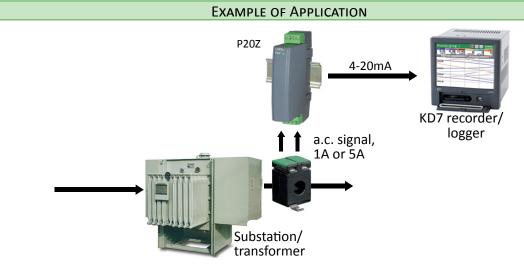


- Continuous conversion of RMS current or voltage without constant component.
- Standard d.c. current or d.c. voltage output signal.
- Small dimensions
- 0.2 accuracy class

## OUTPUTS:







Measurement and archiving of the a.c current.

Measured data are retransmitted to the recorder/data logger.

INPUTS					
Input:	nput: Frequency of the input signal min. value		Short duration overload (5s)	Admissible peak factor	
Voltage		00.011.2 Un	2 Un (max. 1000V)		
Current	<u>4565</u> 500Hz	00.011.2 In	10 ln	2	

# GALVANIC ISOLATION:



### Export department: +48 68 45 75 139/ 321/ 368 Fax: +48 68 32 54 091 e-mail: export@lumel.com.pl

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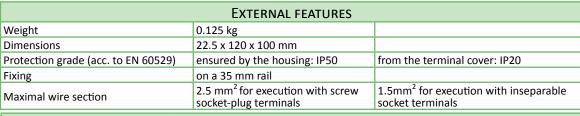
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Measuring Ranges			
Input kind	Measuring range	Accuracy class	
Voltage	60, 100, 150, 250, 400, 500, 600 V a.c.	Accuracy class: <b>0.2</b> Additional errors:	
Current	1A (X/1 A a.c.), 5A (X/5 A a.c.)	In multiplication of the class index (k):  •from ambient temperature change: <0.5 k/10K  •external magnetic field: <1 k  •frequency of the input signal: <1 k/100 Hz	

OUTPUTS			
Output kind	Properties	Remarks	
05 mA	$R_{load} \leq 2000 \Omega$		
020 mA	_		
420 mA	$R_{load} \leq {}_{500}\Omega$	Response time: 0.3 sec	
010 V	$R_{load} \geq 500 \Omega$		



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RATED OPERATING CONDITIONS			
Supply voltage	85253 V a.c.,90300 V d.c. or 2040 V a.c.,2060 V d.c.	power consumption: 4 VA	
Temperature	ambient: -20 <u>23</u> 55°C	storage: -2585°C	
Relative humidity	≤ 95%	inadmissible condensation	
Operating position	any		
External magnetic field	<u>040</u> 400 A/m		
Transducer preheating time	15 min		

SAFETY AND COMPATIBILITY REQUIREMENTS				
Electromagnetic compatibility	Noise immunity	acc. to EN 61000-6-2		
Electromagnetic compatibility	Noise emissions	acc. to EN 61000-6-4		
Isolation ensured by the housing	double			
Isolation between circuits	basic	acc. to EN 61010-1		
Pollution grade	2			
Installation sategory	for operating voltages in relation to the ground up to 300V: III			
Installation category	for operating voltages in relation to the ground up to 600V: II			
Altitude above sea level	<2000 m			

Order example:

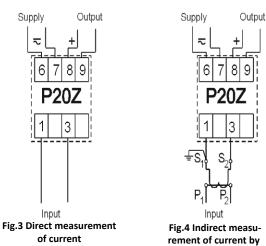
The code P20Z - 09 3 1 1 00 8 means: P20Z - transducer of RMS current or voltage 09 - input signal 5A (X/5A)

3 - output signal 4..20mA

oo - standard execution versions - without extra requirements

# CONNECTION DIAGRAMS Supply Output Supply Output 6 7 8 9 P20Z 2 4 2 4 Input Fig.1 Direct measurement Fig.2 Indirect measurement

g.1 Direct measurement Fig.2 Indirect measuof voltage rement of voltage by means of a voltage transformer



means of a current

transformer

TABLE 1. ORDERING	G COD	FS:				
P20Z		х	Х	Х	XX	Х
Input range:	_					
060 V	01					
0100 V	02					
0150 V	03					
0250 V	04					
0400 V	05					
0500 V	06					
0600 V	07					
01 A	08					
05 A	09					
Output range:						
05 mA		1				
020mA		2				
420 mA		3				
010 V		4				
Supply:						
85253 V a.c.,90300 V d.c.			1			
2040 V a.c.,2060 V d.c.			2			
Kind of terminals:						
inseparable with screws				1		
socket-plug with screws				2		
Version:						
standard					00	
custom-made*					XX	
Acceptance tests:						
without extra requirements						8
with an extra quality inspection certificate						7
acc. to customer's request*						Х
* - after agreeing with the manufacturer						

**ORDERING** 

### SEE ALSO:



Free LPConfig software for easy programming of LUMEL's products. Available on our website



PD14 programmer unit for programming LUMEL's products, with USB connection, LPCon compatible.



Programmable digital meter of d.c. current and d.c. voltage N30H.

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

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