



DATASHEET

Issue 1



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Multifunction Meters

Transducers & Isolators

Temperature Controllers

Converters & Recorders

Digital Panel Meters

Current Transformers

Analogue Panel Meters

Shunts

Digital Multimeters

Clamp Meters

Insulation Testers

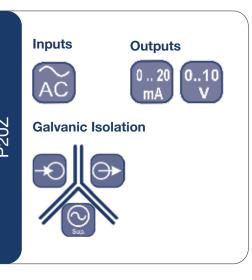
P20Z TRANSDUCER OF RMS CURRENT OR VOLTAGE

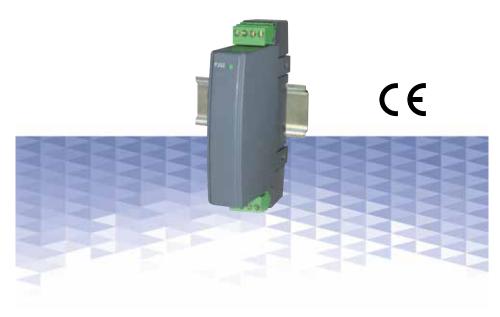
Product Characteristics

- → 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

P20Z









Measurement and archiving of the a.c current. Measured data are retransmitted to the recorder/data logger.

	Inputs				
Input:	Frequency of the input signal	Input signal minmax value	Short duration overload 5s)	Admissible peak factor	
Voltage	4565500Hz	00.011.2 Un	2 Un (max. 1000V)	2	
Current	4505500HZ	00.011.2 ln	10 ln	_	

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



P20Z TRANSDUCER

	Outputs	
Output kind	Properti es	Remarks
05 mA	Rload ≤ 2000 Ω	
020 mA	Rload ≤ 500 Ω	Response time: 0.3 sec
420 mA		ricoperiod time: e.e eee
010 V	Rload ≤ 500 Ω	

External Features				
Weight	0.125 kg			
Dimensions	22.5 x 120 x 100 mm			
Protection grade (acc. to EN 60529)	ensured by the housing: IP50	from the terminal cover: IP20		
Fixing	on a 35 mm rail			
Maximal wire section	2.5 mm2 for execution with screw socket-plug terminals	1.5mm2 for execution with inseparable socket terminals		

Rated Operating Conditions				
Supply voltage	85253 V a.c.,90300 V d.c. or 2040 V a.c.,2060 V d.c.	power consumpti on: 4 VA		
Temperature	ambient: -202355°C	storage: -2585°C		
Relative humidity	≤ 95%	inadmissible condensation		
Operating position	any			
External magnetic field	040400 A/m			
Transducer preheating time	15 min			

Sa	afety and Compatibility Requirem	ents
Electromagnetic compatibility	Noise immunity	acc. to EN 61000-6-2
	Noise emissions	acc. to EN 61000-6-4
Isolation ensured by the	double	
housing		
Isolation between circuits	basic	
Pollution grade	2	
Installation category	for operating voltages in relation	acc. to EN 61010-1
	to the ground up to 300V: III	000110 211 01010 1
	for operating voltages in relation	
	to the ground up to 600V: II	
Altitude above sea level	<2000 m	



Connection Diagrams

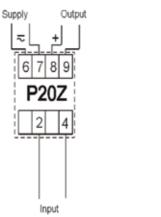


Fig.1 Direct measurement of voltage

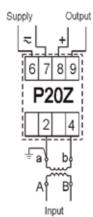


Fig.2 Indirect measurement of voltage by means of a voltage transformer

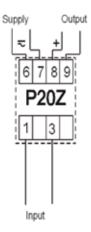


Fig.3 Direct measurement of current

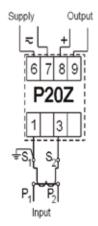


Fig.4 Indirect measurement of current by means of a current transformer

Ordering Codes

Ordering Code	s					
P20Z	- XX	Χ	Χ	Χ	XX	Х
Input signal:						
060 V.	01					
0100 V	02					
0150 V	03					
0250 V	04					
0400 V	05					
0500 V	06					
0600 V	07					
01 A	80					
05 A	09					
Output:						
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 inspecti on certificate						7
acc. to customer's request*						X

^{* -} after agreeing with the manufacturer

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
- **1 -** supply voltage: 85...253 V a.c.,90...300 V d.c.
- 1 with inseparable screw terminals
- 00 standard execution version
- 8 without extra requirements

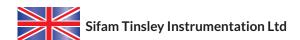


P20Z TRANSDUCER

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