LUMEL

P20Z TRANSDUCER OF RMS CURRENT OR VOLTAGE

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 mm^2 for execution with screw socket-plug terminals	1.5mm^2 for execution with inseparable socket terminals

RATED OPERATING CONDITIONS

Supply voltage	85..253 V a.c./d.c or 20..40 V a.c./d.c.	power consumption: 4 VA
Temperature	ambient: -20..23..55˚C	storage: -25..85˚C
Relative humidity	≤ 95%	inadmissible condensation
Operating position	any	
External magnetic field	0..40..400 A/m	
Transducer preheating time	15 min	

SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	Noise immunity	acc. to EN 61000-6-2
	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 category	for operating voltages in relation to the ground up to 300V: III	
	for operating voltages in relation to the ground up to 600V: II	
Altitude above sea level	<2000 m	

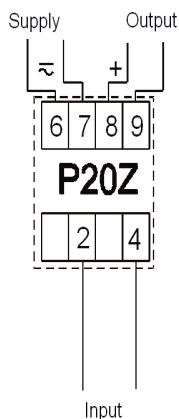## CONNECTION DIAGRAMS

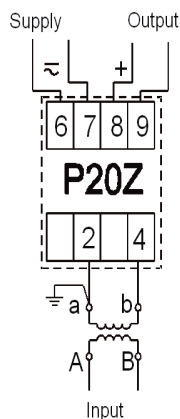**Fig.1 Direct measurement of voltage**

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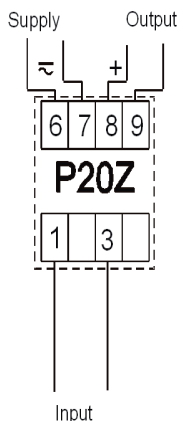

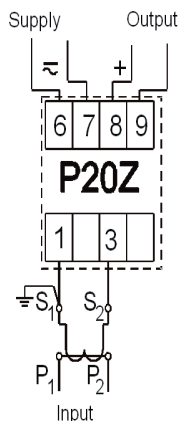**Fig.3 Direct measurement of current**

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

ORDERING

TABLE 1. ORDERING CODES:

	P20Z - XX	X	X	X	XX	X
Input range:						
0..60 V	01					
0..100 V	02					
0..150 V	03					
0..250 V	04					
0..400 V	05					
0..500 V	06					
0..600 V	07					
0..1 A	08					
0..5 A	09					
Output range:						
0..5 mA		1				
0..20mA		2				
4..20 mA		3				
0..10 V		4				
Supply:						
85...253 V a.c./d.c.			1			
20...40 V a.c./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 requiremnts						8
with an extra quality inspection 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./d.c.
  1 - with inseparable screw terminals
  00 - standard execution version
  8 - without extra requirements