

RE81 TEMPERATURE CONTROLLER

CE

FEATURES:











INPUTS:



OUTPUTS:





GALVANIC **ISOLATION:**





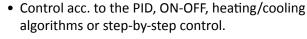


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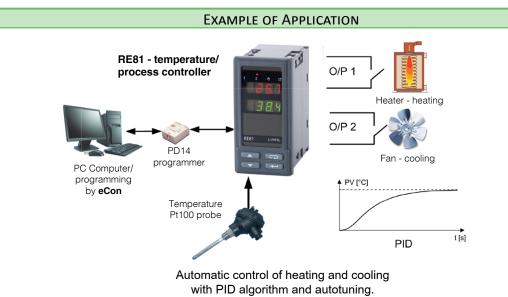
LUMEL S.A. ul. Sulechowska 1 65-022 Zielona Góra POLAND

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- Co-operates directly with resistance thermometers (RTD) or thermocouple sensors (TC).
- Automatic selection of PID parameters.
- 2 configurable outputs.
- Controller configuration by means of the free delivered eCon software.
- Error signaling by means of messages.
- Manual control mode.
- Frontal protection grade ensured by the casing: IP65.



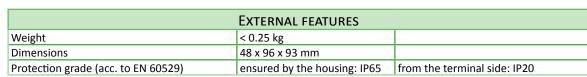
			INPUTS	
Sensor type	Range [°C]	Basic error [°C]	Remarks	Additional error
Resistance the	rmometer (acc. t	o EN 60751), mea	asuring current 0.25mA	
	-50100	±0.8	Resistance of the sensor line $< 10 \Omega$;	
Pt100*)	0250	±1.3	one must connect with wires of the same section and length	
	0600	±3.0		Additional errors in rated ope- rating conditions caused by:
Thermocouple of J type (acc. to PN-EN 60584-1)				• compensation of reference
	0250	±2.0		junction temperature chan-
Fe-CuNi	0600	±3.0		ges ≤ 2°C
	0900	±4.0		• line resistance change of the RTD sensor ≤ 50% of the
Thermocouple of K type (acc. to PN-EN 60584-1)			basic error value/10K	
	0600	±3.0		change of the ambient tem-
NiCr-NiAl	0900	±4.0		perature ≤ 100% of the basic error/10K
	01300	±6.0		error/10K
Thermocouple of S type (acc. to PN-EN 60584-1)				
PtRh10-Pt	01600	±8.0		

Оитритѕ		
Output kind	Properties	
voltageless relay	switching contact, overload capacity: 5A/230V	
binary voltage	voltage 6V, without isolation from the sensor side	

PARAMETERS OF WORK			
Detection of error in the measurement circuit:	thermocouple, Pt100	overflow of measuring range	
Way of output operation	reverse: for heating	direct: for cooling	
Signalling:	active output, auto-tuning, manual control		



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RATED OPERATING CONDITIONS			
Supply voltage	230 V a.c. ± 10%, 50/60Hz	power consumption: < 4 VA	
Temperature	ambient: 0 <u>23</u> 50°C	storage: -2070°C	
Relative humidity	≤ 85%	condensation inadmissible	
Operating position	any		
Preheating time	30 min		
Averaging time	≥ 0.33 s		

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 between circuits	basic		
Pollution grade	2		
Installation category	III	t- FN C1010 1	
Maximal phase-to-earth opera-	for the supply circuit, outputs: 300 V	acc. to EN 61010-1	
ting voltage	for input circuits: 50 V		
Altitude above sea level	o input on outload to		

output 2 output 1 configuration through PD14

CONNECTION DIAGRAMS

Fig. 1 View of the controller connection strips

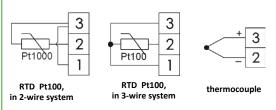
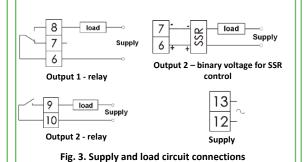


Fig. 2. Connections of input signals



ORDERING

ORDERING CODES	_				
RE81 -	XX	Χ	X	Х	X
Input signal:					
RTD Pt100 (-50100°C)	01				
RTD Pt100 (0250°C)	02				
RTD Pt100 (0600°C)	03				
Thermocouple J (Fe-CuNi)(0250°C)	04				
Thermocouple J (Fe-CuNi)(0600°C)	05				
Thermocouple J (Fe-CuNi)(0900°C)	06				
Thermocouple K (NiCr-NiAl)(0600°C)	07				
Thermocouple K (NiCr-NiAl)(0900°C)	08				
Thermocouple K (NiCr-NiAl)(01300°C)	09				
Thermocouple S (PtRh10-Pt)(01600°C)	10				
Output*:					
relay		1			
binary 0/6 V for SSR control		2			
Version:			1		
standard			00		
custom-made**			XX		
Language:					
Polish				Р	
English				Ε	
other**				Χ	
Acceptance tests:					
without extra requirements					0
with a extra quality inspection certificate					1
acc. to customer's request**					Х

- * second output relay ** after agreeing with the manufacturer

Order example:

The code **RE81 - 06 2 00 E 0** means:

RE81 - temperature controller of RE81 type

06 - input: TC J, (0...900°C)

2 - output: binary 0/6 V for SSR control

00 - standard version

E - English language

0 - without extra requirements

Export department:

SEE ALSO:

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