

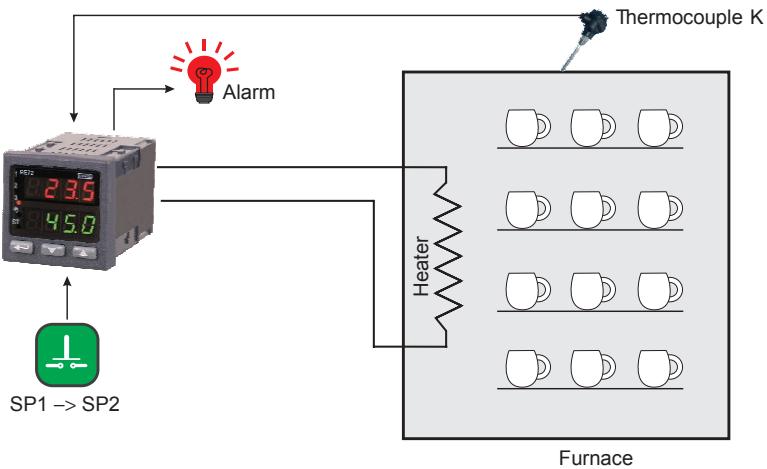
RE72 TEMPERATURE CONTROLLER

FEATURES:



- Universal measuring input.
- Binary input control.
- Set point value: fixed value, programmed or from an additional input.
- On/off, PID, PID step-by-step control (valve control) or PID of heating-cooling type.
- Soft start.
- 8 types of alarms.
- Function of bistable alarm (LATCH).
- Timer function.
- Measurement of heater current and heater burning control or short-circuit of the control element (e.g. SSR).

EXAMPLE OF APPLICATION



Control of ceramics burning process.

INPUTS:



OUTPUTS:



GALVANIC ISOLATION:



INPUT		
Input type	Range	Error
Pt100	-200 .. 850°C	0.2%
Pt1000	-200 .. 850°C	0.2%
Fe-CuNi (J)	-100 .. 1200°C	0.3%
Cu-CuNi (T)	-100 .. 400°C	0.3%
NiCr-NiAl (K)	-100 .. 1372°C	0.3%
PtRh10-Pt (S)	0 .. 1767°C	0.5%
PtRh13-Pt (R)	0 .. 1767°C	0.5%
PtRh30-PtRh6 (B)	200 .. 1767°C	0.5%
NiCr-CuNi (E)	-100 .. 1000°C	0.3%
NiCrSi-NiSi (N)	-100 .. 1300°C	0.3%
chromel-kopel (L)	-100 .. 800°C	0.3%
Current channels (I)	0/4 .. 20 mA	0.2% +/- 1 digit
Voltage channels (U)	0 .. 5/10 V	0.2% +/- 1 digit

OUTPUTS		
Output type	Properties	Load capacity
Voltageless relay output	NO contact	2 A/ 230 V a.c. (out. 1 and 2) 1 A/ 230 V a.c. (out. 3)
Voltage transistor output	0/5 V	max 40 mA
Continuous voltage output	0 .. 10 V	at $R_{load} \geq 1 \text{ k}\Omega$
Continuous current output	0 .. 20 mA, 4 .. 20 mA	at $R_{load} \leq 500 \Omega$

DIGITAL INTERFACE		
Interface type	RS-485	Mode
Protocol	Modbus RTU	8N2, 8E1, 8O1, 8N1
Transmission rate	4.8, 9.6, 19.2, 38.4, 57.6 kbit/s	

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RE72 TEMPERATURE CONTROLLER

EXTERNAL FEATURES		
Readout field	2 x 4 digits	digit height: 10 mm, red and green colours
Dimensions	48 x 48 x 93 mm	
Weight	< 0.2 kg	
Protection grade	from frontal plate: IP65	from terminal side: IP20

RATED OPERATING CONDITIONS		
Supply voltage	85 .. 253 V a.c./ d.c.	20 .. 40 V a.c./d.c.
Temperature	ambient: 0..23..50°C	storage: -20..70°C
Relative humidity	< 85%	(without condensation of water vapour)
Operating position	any	

SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Pollution level		2
Installation category		III
Maximal phase-to-earth operating voltage	supply, output: 300 V	input circuits: 50 V
Altitude above sea level		2000 m

CONNECTION DIAGRAMS

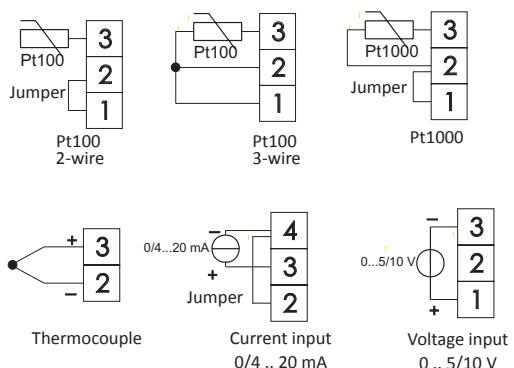


Fig. 1. Input signals.

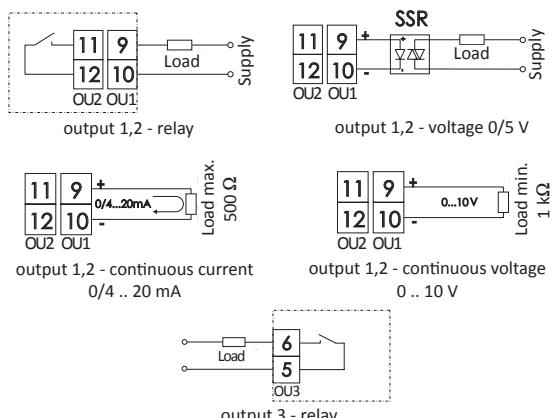


Fig. 2. Control/alarm outputs.

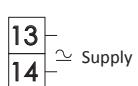


Fig. 3. Supply.

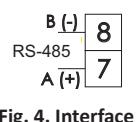


Fig. 4. Interface RS-485

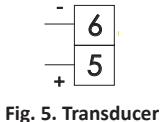


Fig. 5. Transducer supply.

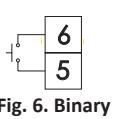


Fig. 6. Binary input.

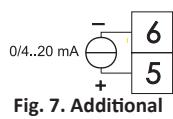


Fig. 7. Additional input.

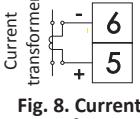


Fig. 8. Current transformer input.

ORDERING

RE72 -	X	X	X	X	X	X	X	X
Output 1:								
relay	1							
voltage: 0/5 V	2							
continuous current: 0/4 .. 20 mA	3							
continuous voltage: 0 .. 10 V	4							
Output 2:								
relay ¹⁾	1							
voltage: 0/5 V	2							
continuous current: 0/4 .. 20 mA	3							
continuous voltage: 0 .. 10 V	4							
Options:								
none	0							
output 3 - relay	1							
binary input	2							
current transformer input ²⁾	3							
additional current input: 0/4 .. 20 mA	4							
transducer supply: 24 V d.c. 1 W	5							
Supply:								
85 .. 253 V a.c./ d.c.	1							
20 .. 40 V a.c./ d.c.	2							
Version:								
standard	00							
custom-made ³⁾	XX							
Language version:								
Polish	P							
English	E							
other ³⁾	X							
Acceptance tests:								
without extra quality requirements	8							
with an extra quality inspection certificate	7							
according to customer's request ³⁾	X							

- 1) - only, when a relay is also selected on the output 1
 2) - only, when a relay or voltage output 0/5 V is also selected
 3) - only, after agreeing with the manufacturer

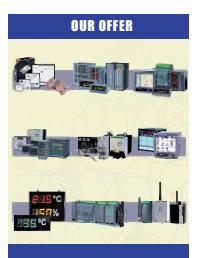


Temperature sensors.



SSR relay of LU series.

LPConfig
Free LPConfig for easy programming of LUMEL's products.



Ordering example:

The code: RE72 - 1 2 2 1 00 E 8 means:

RE72 - temperature controller of RE72 type
 1 - output 1: relay
 2 - output 2: voltage 0/5 V
 2 - option with binary input
 1 - supply: 85 .. 253 V a.c./ d.c.
 00 - standard version
 E - documentation and descriptions in English version
 8 - without extra quality requirements.