

Universal process controller LIM N2000

Technical description

Characteristic

- PID control; ON/OFF
- double LED display: red for PV and green for SV
- autotuning
- adjustable offset for the sensor
- programmable universal input
- 5 control/alarm programmable outputs
- heating function - ramping: 7x7 segments
- programmable soft start up to 9999 seconds
- remote setpoint input for 4-20 mAdc signal (N2000)
- retransmission PV/SV
- sensor damage detection
- front panel: IP65
- USB interface for configuration

Input

- TC: J, K, T, N, R, S, B, E
- RTD: Pt100
- analog: (4 ÷ 20) mA, (0 ÷ 50) mV, (0 ÷ 5) V, (0 ÷ 10) V DC

Accuracy

- ±0,25% of range ±1 °C: for J, K, T
- ±0,25% of range ±3 °C: for N, R, S, B, E
- ±0,2% of range: for Pt100, (4 ÷ 20) mA, (0 ÷ 50) mV, (0 ÷ 5) V, (0 ÷ 10) V DC

Output I, II

- przekaźnik: SPDT 3 A/240 V

Output III, IV

- relay: NO 1,5 A/250 V

Output V

- analog/universal output (0 ÷ 20) mA, (4 ÷ 20) mA (550 Ω max.)
- SSR: 10 V/20 mA, digital input/output

Output VI

- digital output
- SSR 5 V/20 mA

Additional power source

24 V DC/25 mA (±10%)

Power source

(100 ÷ 240) V AC/DC (±10%)
(12 ÷ 24) V AC/DC
9 VA

Operating conditions

- temperature: (5 ÷ 50) °C
- humidity for $T \geq 30$ °C $RH_{max} = 80\%$
 $T < 30$ °C $RH_{max} = [80 - (30 - T) * 3]\%$

Dimension [mm]

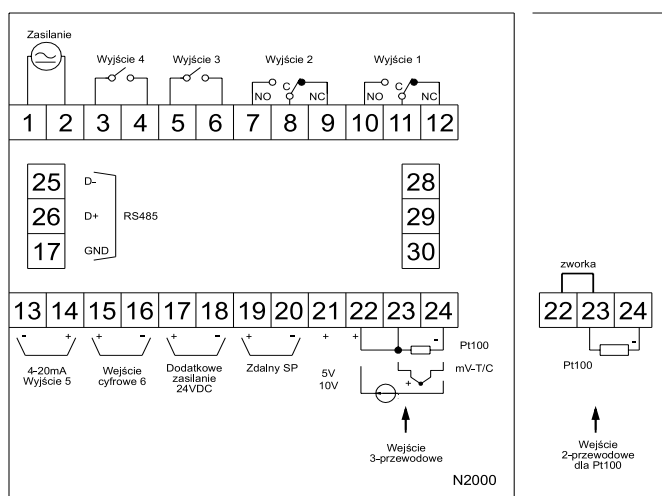
48x96x92; hole: 45,5x92,5

Additional functions

- RS485 interface with Modbus RTU protocol (optional)



Wiring diagram



Ordering code

Universal process controller		LIM N2000 - ... - ...
Power source: (100 ÷ 240) V AC/DC (12 ÷ 24) V AC/DC		4 5
Interface: none RS485 interface (optional)		0 1

Ordering example

Universal process controller LIM N2000-4-0