

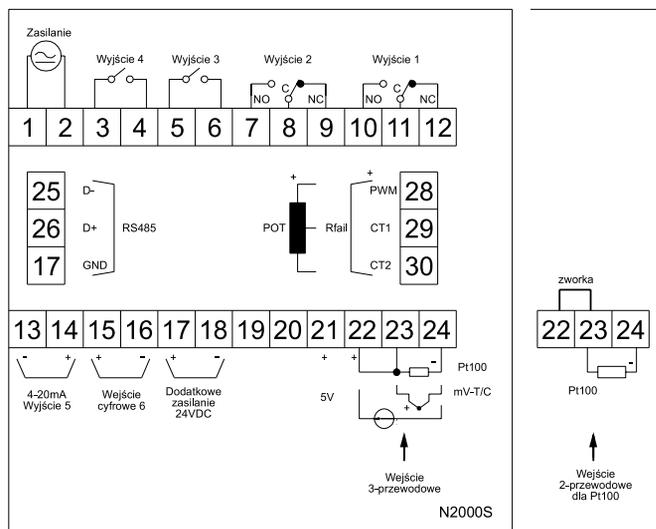
Universal process controller LIM N2000S

Technical description

Characteristic
<ul style="list-style-type: none"> – PID control; ON/OFF – double LED display: red for PV and green for SV – autotuning – adjustable sensor – three-position control for valves (servo) – connecting a potentiometer to display % of valve opening – 5 control/alarm programmable outputs – heating function - ramping: 7x7 segments – programmable soft start – remote setpoint input – retransmission PV/SV – sensor damage detection – front panel: IP65 – USB interface for configuration
Input
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> ±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
– relay: SPDT 3 A/240 V
Output III, IV
– relay: NO 1,5 A/250 V
Output V
<ul style="list-style-type: none"> – analog/universal output (0 ÷ 20) mA, (4 ÷ 20) mA (550 Ω max.) – SSR: 10 V/20 mA, digital input/output
Output VI
– digital output
Additional power source
24 V DC/20 mA (±10%)
Power source
<ul style="list-style-type: none"> (100 ÷ 240) V AC/DC (±10%) (12 ÷ 24) V AC/DC 9 VA
Operating conditions
<ul style="list-style-type: none"> – temperature: (5 ÷ 50) °C – humidity for T ≥ 30 °C RH_{max.} = 80% – humidity for T < 30 °C RH_{max.} = [80 - (30-T)*3]%
Dimension [mm]
48x96x92; hole: 45,5x92,5
Additional functions
– RS485 comm with Modbus RTU protocol (optional)



Wiring diagram



TEMPERATURE CONTROLLERS

Ordering code

Universal process controller	LIM N2000S - ... - ...
Power source: (100 ÷ 240) V AC/DC	4
(12 ÷ 24) V AC/DC	5
Interface: none	0
RS485 interface (optional)	1

Ordering example

Universal process controller LIM N2000S-4-0