

Limatherm Sensor controller with RS-485 communication as an option. It has digital inputs, two outputs for transmitter supply 24V. N3000 has universal input suitable for most popular thermocouple and Pt100 sensors and analogue inputs, including 4÷20mA. Low or standard 230V power supply can be selected. 4 relay outputs programmable as alarm or control, 5th universal output programmable as SSR 14V (for control of three-phase semiconductor relays or 4÷20mA (control or retransmission)), digital input/output.

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- programmable input
- 5 programmable outputs: control/alarm
- 1 digital input with 5 programmable functions
- additional remote setpoint input with 4...20mA signal
- ramp function: 7x7 segments or 1x49 segments
- programmable soft-start
- remote setting of SV
- PV/SV retransmission
- sensor failure detection
- front panel: IP65

Input

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

Accuracy

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

Output I..IV

- relay: 3A/240V AC (3A/30VDC)

Output V

- analog/universal output: 0÷20mA, 4÷20mA,
- SSR: 14V/28mA, digital input/output

Output VI

- digital output

Power supply

230V AC, 24V DC / AC ±10%

Operating conditions

- temperature: 5÷50°C
- humidity for T≥30°C RH max. = 80%
- T<30 °C RH max. = [80 - (30-T)*3]%

Dimensions [mm]

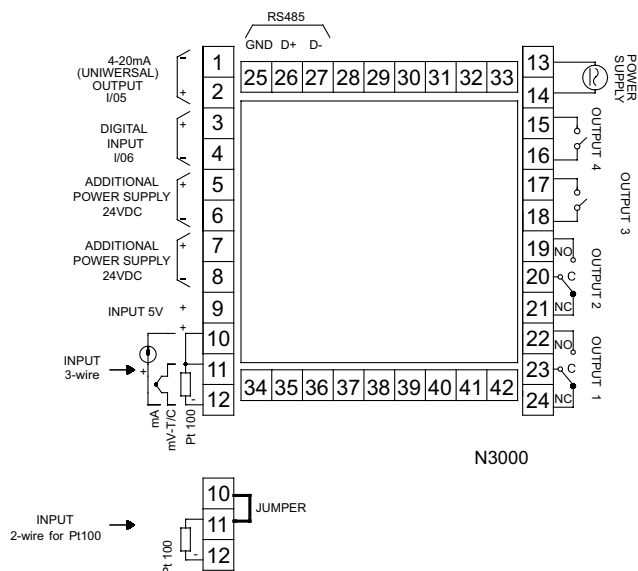
48 × 96 × 92; cut-out 45,5 × 92,5

Additional features

- RS485 interface



SCHEME OF CONNECTIONS



Product code

		Power supply	
1	□	4	90÷250V AC
		5	12÷24V AC/DC
		Input	
2	□	1	universal

		Output I, II, III, IV	
3	<input type="text"/>	1	relay 3A/240V AC (3A/30VDC)
		Input V	
4	<input type="text"/>	3	analog 0÷20mA, 4÷20mA, SSR, digital, retransmission
		Communication	
		0	none
5	<input type="text"/>	1	RS-485

1 2 3 4 5

LIM N3000 - - - - -

Ordering example:

Controller LIM N3000-4-1-1-3-0