Controller

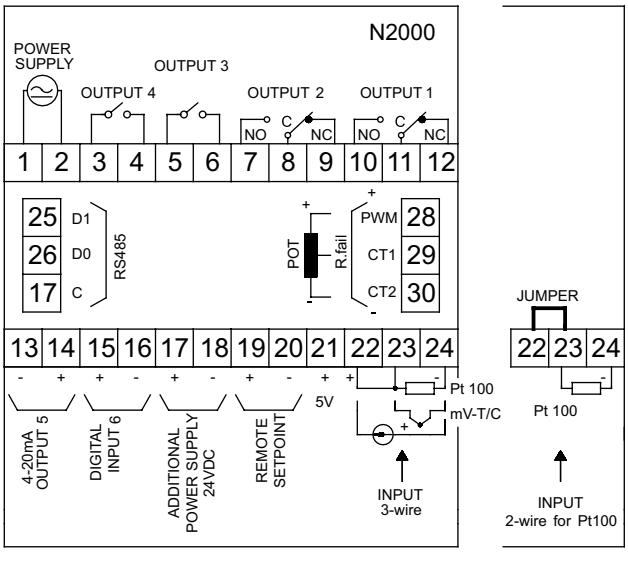
LIM N2000

Limatherm Sensor controller with RS-485 communication as an option. It has digital input, additional 24V power supply and outside control of setting. N2000 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 – 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

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3		**Output I, II, III, IV**	
		1	relay 3A/240V AC (3A/30VDC)
		Input V	
4		**3**	analog 0÷20mA, 4÷20mA, digital, retransmission
		Communication	
		0	none
5		**1**	RS-485

	1	2	3	4	5
LIM N2000	–	–	–	–	–

Ordering example: **Controller LIM N2000–4–1–1–3–0**