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limatherm SENSOR

Universal process controller **LIM N1200**

Technical description

Characteristic
– PID control; ON/OFF
– self-adaptive control
– dedicated to very demanding application
– heating function - ramping: 20x9 segments
– HBD: heater break detect
– sampling: up to 55 measurements/second
– digital output with 5 operating functions
– front panel: IP65
– USB interface for configuration

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

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

Output I, II
– relay: NO 1,5 A/240 V AC

Output III, IV
– relay: SPDT 3 A/250 V AC
– digital input/output: 5 V/20 mA
– heater burnout control (HBD version)

Output V
– output analog/universal: (0 ÷ 20) mA, (4 ÷ 20) mA
– SSR: 14 V/28 mA, digital

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

Operating conditions
– temperature: (5 ÷ 50) ºC
– humidity for T≥30 ºC $RH_{max.}$ = 80%
T<30 ºC $RH_{max.}$ = [80 - (30-T)*3]%

Dimension [mm]
48x48x110; hole: 45,5x45,5

Additional functions
– digital input/output
– heater burnout control
– RS485 interface

Wiring diagram
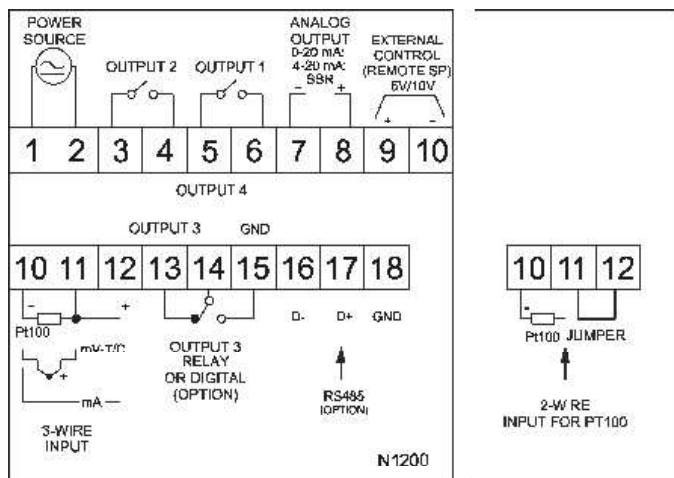
Ordering code

Universal process controller	LIM N1200 – ... – ... – ...
Power source:	
(100 ÷ 240) V AC/DC	**4**
(12 ÷ 24) V AC/DC	**5**
Output:	
2 relays- (outputs: 1, 2, 5) (standard)	**2**
3 relay - (outputs: 1, 2, 3, 5) (optional)	**3**
digital input/output - (outputs: 1, 2, 3, 4, 5) (optional)	**5**
HBD (optional)	**6**
Interface: none	**0**
RS485 interface (optional	**1**

Ordering example

Universal process controller LIM N1200–4–2–0