

Indicator **N1500G**

Specification

Characteristic

- 4,5 digit LED display
- large digits – 56 mm
- transmitter supply
- 2 alarm outputs
- 5 types of alarms
- RS485 interface
- sensor offset
- sensor failure detection

Input

- TC: J, K, T, E, B, R, S, N
- RTD: Pt100
- current: 4÷20mA, 0÷50mA
- voltage: 0÷5V, 0÷10V

Accuracy

- ±0,25% of range ±1°C: for J, K, T, E, N
- ±0,25% of range ±3°C: for S, R, B
- ±0,2% of range: for Pt100
- ±0,15% of range: for voltage and current input

Output

- current: 4÷20mA

Power supply

230V AC

Operating conditions

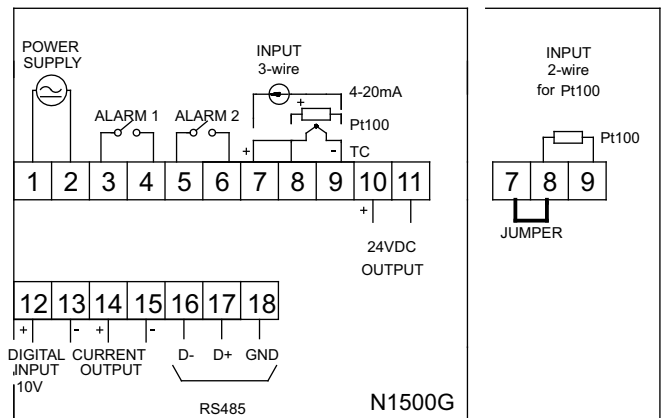
- temperature: 5÷50°C
- humidity for T≥30°C RH max. = 80%
- T<30 °C RH max. = [80 - (30-T)*3]%

Dimensions [mm]

310 × 110 × 37



SCHEME OF CONNECTIONS



Ordering example:

Indicator 1500G

Time Controller **NT240**

Specification

Characteristic

- 4 digit dual LED display
- programmable controller suitable for time intervals monitoring
- output activation according to the operation modes and time intervals defined by the user
- possibility to define individual operation modes
- information of time intervals is displayed in increasing or decreasing mode (resolution from 0,01s to 1h)
- digital inputs available for special functions
- front panel: IP65
- transmitter supply

Input

- dry contact: RESET, HOLD, START; sensor PN, NPN

Accuracy

0,05%

Output I

- relay: 5A/240V AC (3A/30VDC)

Output II

- digital 5V/25mA

Power supply

230V AC, 24V DC / AC $\pm 10\%$

Operating conditions

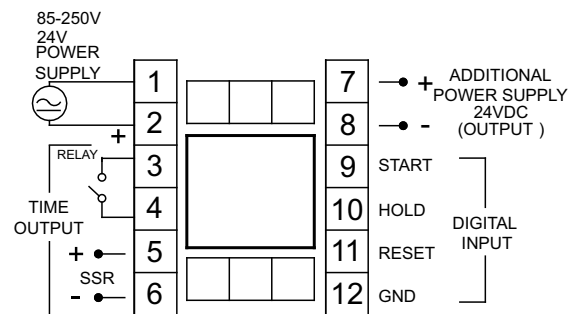
- temperature: 0÷55°C
- humidity: 20÷85% RH non-condensing

Dimensions [mm]

48 × 48 × 106; cut-out 45,5 × 45,5



SCHEME OF CONNECTIONS



Ordering code

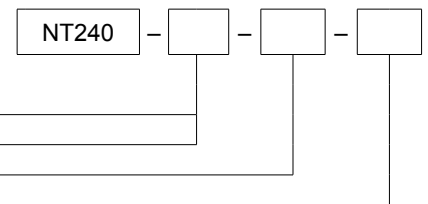
Time Controller

Power supply: 90÷250V AC: **4**

12÷24V AC/DC: **5**

Output I: relay 5A/240V AC (3A/30VDC): **1**

Output II: SSR 5VDC/25mA: **1**



Ordering example:

Time Controller NT240-4-1-1

Controller **N1040**

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- programmable input
- 3 programmable outputs: control/alarm
- ramp function
- sensor failure detection
- four-level blocking of access
- simple configuration menu
- front panel: IP65

Input

- TC: J, K, T
- RTD: Pt100

Dokładność

- $\pm 0,25\% \pm 1^\circ\text{C}$: for J, K, T,
- $\pm 0,2\%$ of range: for Pt100

Output I

- SSR: 5V DC/20mA max.

Output II

- relay: 1,5A/240V AC

Output III

- relay: 1,5A/240V AC

Output IV

- relay: 3A/240V AC

Power supply

- 100÷240V AC, 24V DC / AC $\pm 10\%$

Operating conditions

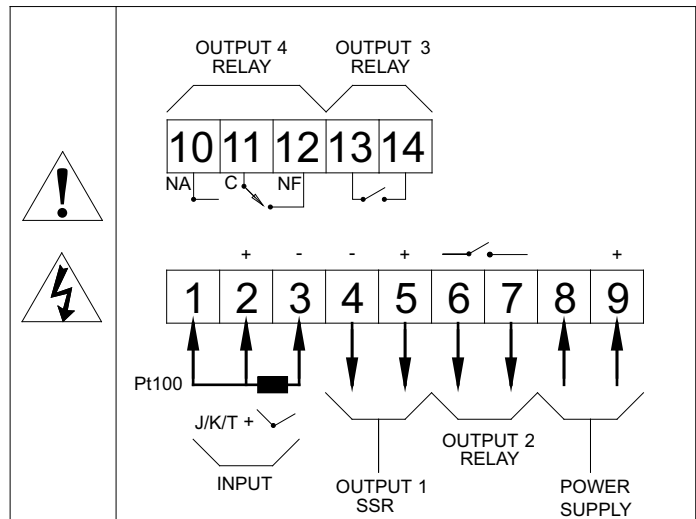
- temperature: 0÷55°C
- humidity: 20÷85% RH non-condensing

Dimensions [mm]

- 48 × 48 × 80; cut-out 45,5 × 45,5

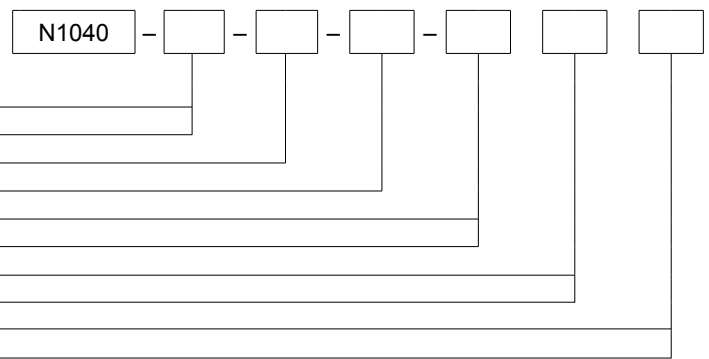


SCHEME OF CONNECTIONS



Ordering code

Controller



Power supply: 90÷250V AC: **4**

12÷24V AC/DC: **5**

Universal input: **1**

Output* I: SSR: 5V DC/20mA max.: **2**

Output II: without : **0**

relay 1,5A/240V AC: **1***

Output III: without : **0**

relay 1,5A/240V AC: **1**

Output IV: without : **0**

relay 3A/240V AC: **1**

*maximum 3 outputs can be selected (e.g. 2 relays + SSR, 3 relays, 2 relays + 4÷20mA)

Ordering example:

Controller N1040-4-1-2-0-0-1

Controller **N480D**

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- programmable input
- 2 programmable control/alarm outputs
- ramp function
- sensor failure detection
- simple configuration menu
- front panel: IP65

Input

- TC: J, K, S, T, E, N, R
- RTD: Pt100

Accuracy

- $\pm 0,25\% \pm 1C$: for J, K, S, T, E, N, R
- $\pm 0,2\%$ of range: for Pt100

Output I

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

Output II

- SSR: 5V DC/20mA max.

Output III

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

Output IV

- relay: 3A/240V AC (3A/30VDC)
- current: 4÷20mA

Power supply

230V AC, 24V DC / AC $\pm 10\%$

Operating conditions

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

Dimensions [mm]

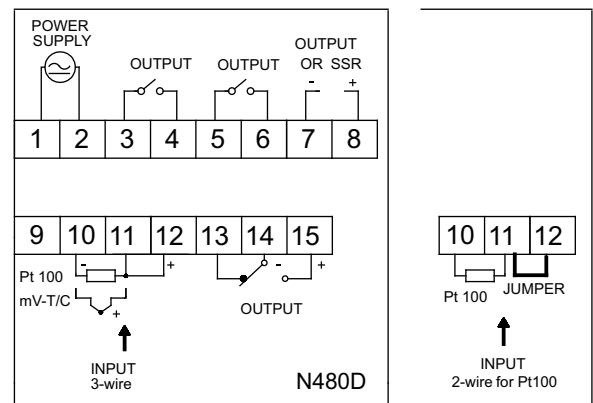
48 × 48 × 110; cut-out 45,5 × 45,5

Additional features

- control output 4÷20mA



SCHEME OF CONNECTIONS



Ordering code

Controller



Power supply: 90÷250V AC: **4**
 12÷24V AC/DC: **5**

Universal input: **1**

Output* I: relay 3A/240V AC (3A/30VDC): **1**

Output II: without: **0**

SSR 5VDC/20mA: **2*** (option unavailable for current output)

Output III: without: **0**

relay 3A/240V AC (3A/30VDC): **1**

Output IV: without: **0**

relay 3A/240V AC (3A/30VDC): **1**

current 4÷20mA: **3** (option unavailable for current output)

* maximum 3 outputs can be selected (e.g. 2 relays + SSR, 3 relays, 3 relays + 4÷20mA)

** control current output

Ordering example:

Controller N480D-4-1-1-2-1-0

Controller **N960**

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- programmable input
- 2 programmable control/alarm outputs
- ramp function: 1 profile with 7 segments
- sensor failure detection
- simple configuration menu
- front panel: IP65

Input

- TC: J, K, S, T, N, R
- RTD: Pt100

Accuracy

- ±0,25% ±1C: for J, K, S, T, N, R
- ±0,2% of range: for Pt100

Output I

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

Output II

- relay: 3A/240V AC (3A/30VDC)
- SSR: 14V/28mA

Power supply

230V AC, 24V DC / AC ±10%

Operating conditions

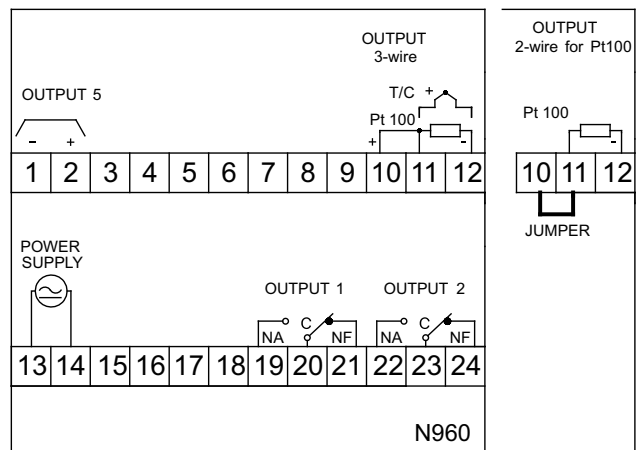
- temperature: 5÷50°C
- humidity for T≥30°C RH max. = 80%
- T<30 °C RH max. = [80 - (30-T)*3]%

Dimensions [mm]

96 × 96 × 92; cut-out 92,5 × 92,5



SCHEME OF CONNECTIONS



Ordering code

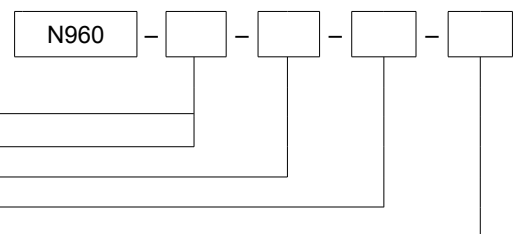
Controller

Power supply: 90÷250V AC: **4**
 12÷24V AC/DC: **5**

Universal input: **1**

Output I, II: relay 3A/240V AC (3A/30VDC): **1**

Output III: analog output 0÷20mA, 4÷20mA, SSR 14V/28mA: **1**



Ordering example:

Controller N960-4-1-1-1

Controller N1100

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- ramp function: 7x7 segments
- programmable soft-start
- remote setting of SV
- PV/SV retransmission
- sensor failure detection

Input

- TC: J, K, S, T, E, N, R
- RTD: Pt100
- analog: 4÷20mA, 0÷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..III

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

Output IV

- digital output

Output V

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

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]

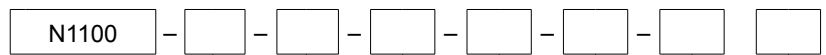
48 × 48 × 110; cut-out 45,5 × 45,5

Additional features

- digital input/output
- heater break detection
- RS485 interface

Ordering code

Controller



Power supply: 90÷250V AC: **4**
 12÷24V AC/DC: **5**

Universal input: **1**

Output I, II: relay 3A/240V AC (3A/30VDC): **1**

Output III: without (standard): **0**

third relay (option) 3A/240V AC (3A/30VDC): **1**

digital input/output (option available with output III): **4**

heater break detection: **6**

Output IV: without: **0**

digital input/output (option available with output III): **4**

Output V analog output 0÷20mA, 4÷20mA, SSR 14V/28mA, digital, retransmission: **3**

Communication: without: **0**

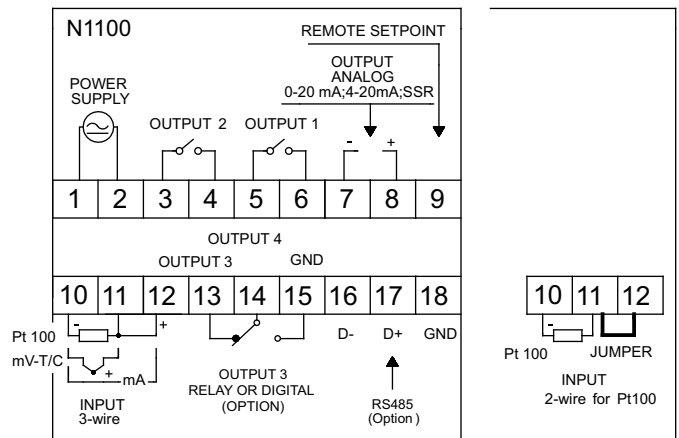
RS485: **1**

Ordering example:

Controller N1100-4-1-1-1-0-0-3-0



SCHEME OF CONNECTIONS



Controller **N1200**

Specification

Characteristic

- PID control; ON/OFF control
- auto-adaptive tuning
- suitable for demanding applications
- 2 relays control/alarm
- front panel: IP65

Input

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

- relay: 1,5A / 240V AC

Output III lub IV

- relay or digital input/output (option)

Output V

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

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]%

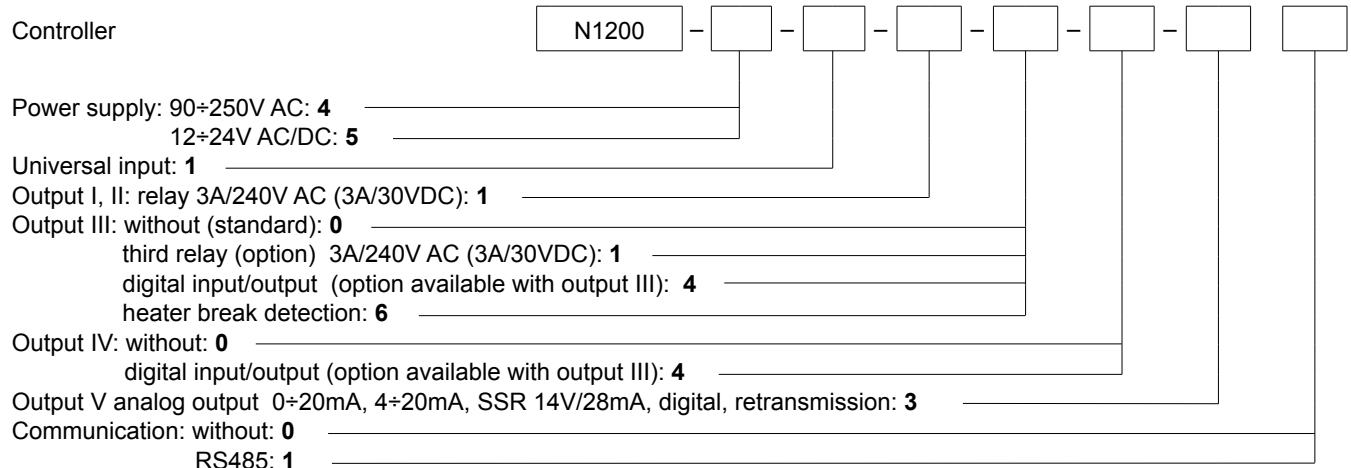
Dimensions [mm]

48 × 48 × 110; cut-out 45,5 × 45,5

Additional features

- digital input/output
- heater break detection
- RS485 interface

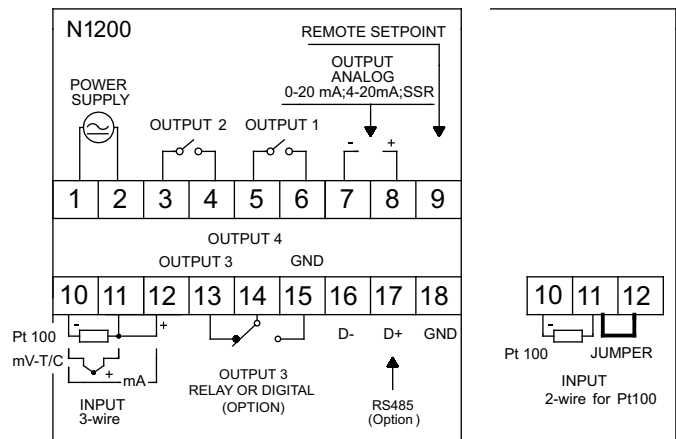
Ordering code



Ordering example: **Controller N1200-4-1-1-1-0-0-3-0**



SCHEME OF CONNECTIONS



Controller **N2000**

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)

OutputV

- 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

Ordering code

Controller

Power supply: 90÷250V AC: **4**

12÷24V AC/DC: **5**

Universal input: **1**

Output I, II, III, IV: relay 3A/240V AC (3A/30VDC): **1**

Output V: analog output 0÷20mA, 4÷20mA, SSR, digital, retransmission: **3**

Communication: without: **0**

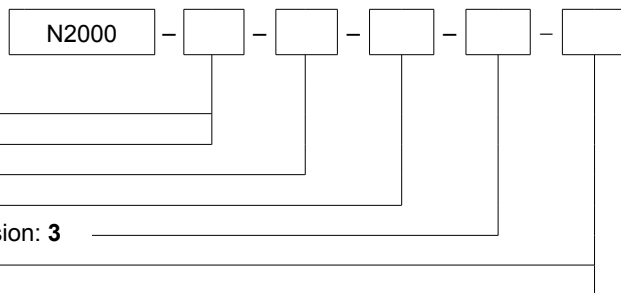
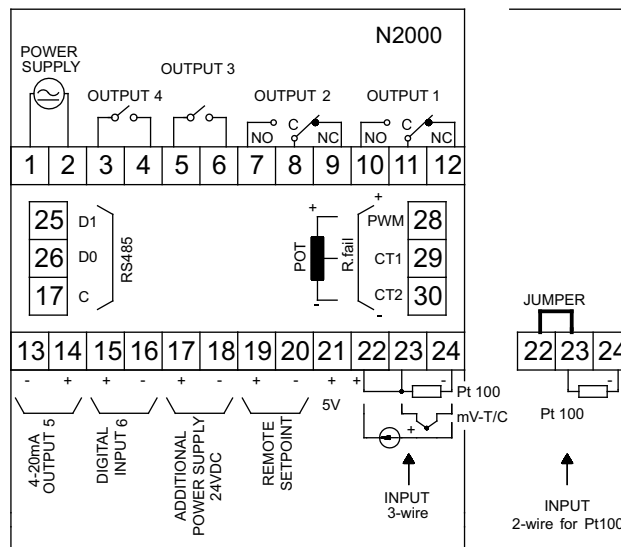
RS485: **1**

Ordering example:

Controller N2000-4-1-1-3-0



SCHEME OF CONNECTIONS



Controller **N2000S**

Specification

Characteristic

- PID control; ON/OFF control
- 4 digit dual LED display
- auto-tuning
- sensor offset
- three-stage control (e.g. with jumpers)
- 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)

OutputV

- 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

Ordering code

Controller

Power supply: 90÷250V AC: **4**
 12÷24V AC/DC: **5**

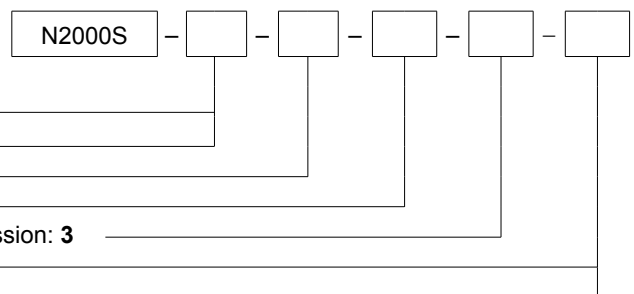
Universal input: **1**

Output I, II, III, IV: relay 3A/240V AC (3A/30VDC): **1**

Output V: analog output 0÷20mA, 4÷20mA, SSR, digital, retransmission: **3**

Communication: without: **0**

RS485: **1**

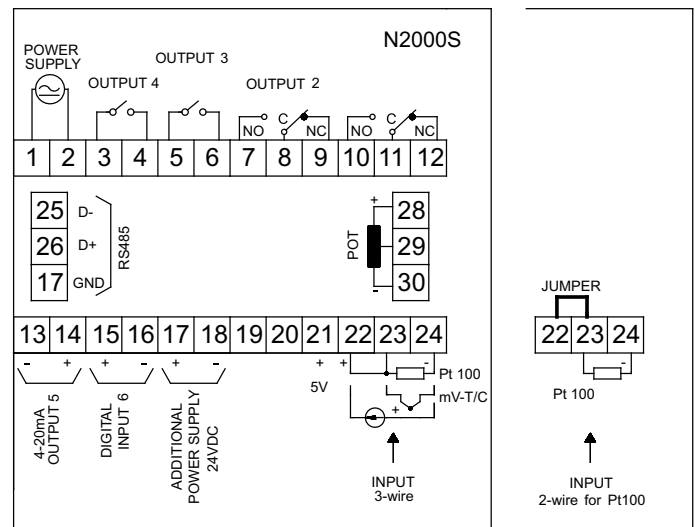


Ordering example:

Controller N2000S-4-1-1-3-1



SCHEME OF CONNECTIONS



Controller N3000

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

Ordering code

Controller

Power supply: 90÷250V AC: **4**

12÷24V AC/DC: **5**

Universal input: **1**

Output I, II, III, IV: relay 3A/240V AC (3A/30VDC): **1**

Output V: analog output 0÷20mA, 4÷20mA, SSR, digital, retransmission: **3**

Communication: without: **0**

RS485: **1**

Ordering example:

Controller N3000-4-1-1-1-1-1-3-5



SCHEME OF CONNECTIONS

