N-5000 Intelligent Digital Display Temperature Controller

USER MANUAL

Please read this manual thoroughly for the maintenance of correct usage before using this product and keep this manual as a reference.

◄ CAUTION WHEN OPERATING ►

1. Before changing the controller, please ensure that the power is switch off.
2. Please observe closely on the display panel for wrong / soft / hard faults.
3. No scrubbing or touching the display panel with any hard objects, the display panel can be easily scratched.
4. Do not press any buttons on the display panel by pointy objects such as ballpoint pen or screw driver, it can easily scratch the panel or damage buttons on the panel.

I. Confirmation of the product

Please confirm the model is received as ordered or not by the below codes for checking the following model numbers:

N □□-□□□□□□-□-□-□-□-□

① : Size color of shell
0: Black 1: White

②Measurement of the panel installations
01: 48*48 02: 72*72

③ : 48*48(Normal Type)
4 : 72*72(Standard Type)
xx: xx*xx

④Series Code
0 : Dual-Alarm Display (Economical Model)

⑤Control Type
0 : On/off PID control (Reverse)
1 : Customized PID Control (Reverse)

⑥Alarm Output 1
⑦Alarm Output 2
0: Without Alarm 1: Upper Limit Deviation Alarm
2: Lower Limit Deviation Alarm
3: Upper and Lower Limit Deviation Alarm ("With Hold")
4: Upper Limit Absolute Value Alarm
5: Lower Limit Absolute Value Alarm
6: Upper and Lower Limit Absolute Value Alarm
7: Upper Limit Deviation Alarm ("With Hold")
8: Lower Limit Deviation Alarm ("With Hold")
9: Upper and Lower Limit Deviation Alarm ("With Hold")

⑧ : Communication Type
0: Without Communication
1: RS485 Communication

⑨ : Power Supply
0: 100-240VAC 50/60Hz
1: 24VAC/DC

II. Installation

2.1 Cautions when Installing

Please install the controller in the following environment conditions:

1. Temperature: 0 to 50 degrees C
2. Humidity: 45% to 85% RH
3. Avoid sudden pressure change and strong vibration.
4. Avoid direct sunlight and strong ultraviolet ray.
5. Avoid any liquid and chemical.
6. Avoid corrosive gas (sea breeze, NH4, H2S, etc.).
7. Avoid inflammable, explosive gas, steam, dust, etc.
8. Avoid strong electromagnetic field, electric shock, impact, and vibration.
9. Avoid direct wind, rain, and moisture.
10. Avoid any equipment with strong heat radiation.
11. Avoid dust, salt and corrosive gases.

Please install the following conditions during installation:

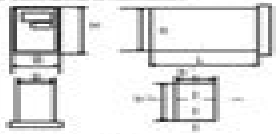
1. Keep at least 50mm away from high voltage cable, power cable and power equipment.
2. Do not install power equipment in the same panel with this controller if possible.
3. Keep at least 100mm away from equipment with strong interference, such as high voltage starter.
4. Use shielded cable for signal input and output.
5. Use separate conduit for signal input and output.
6. Use a noise filter if the power source is affected by noise.
7. Install a noise filter as close to the load as possible.
8. Use a varistor for inductive load.

2.2 Mounting Process

1. Cut out the mounting hole on the panel for installing the controller according to the required hole size. When installing more than one controller, the minimum horizontal and vertical distance between two holes should be 20mm and 15mm respectively.
2. Insert the controller into the hole from the front panel.
3. Install the mounting bracket on the unit for mounting the controller.
4. Push the mounting brackets backwards to secure the instrument until the panel tightly.

Recommended torque: 0.5 Nm
Do not over-tighten the screws when over-tighten may damage the panel

2.3 Dimensions (in millimeters)



Model	W*H	W*H*D	W*H*D
N400	48*48	48*48*100	48*48*(100+8.5)
N480	72*48	72*48*100	72*48*(100+8.5)
N440	48*96	48*96*100	48*96*(100+8.5)
N880	96*96	96*96*100	96*96*(100+8.5)

2.4 Sensor Connections

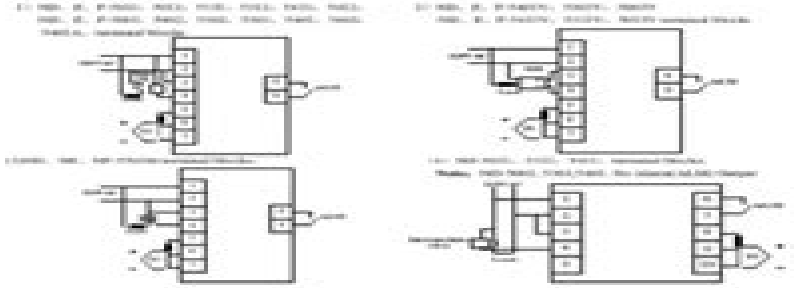
1. Measurement accuracy: 0.5%FS±1dig 2. Power: 220VAC or 24 ~ 28VDC 3. Temperature: 0~50°C 4. Power and control 5. The product conforms with the "CE(EMC Low Voltage Directive)" standard.

III. Wiring

3.1 Caution when wiring

1. Please use the specified compensation wire for thermocouple type.
2. For small thermocouple or thermocouple wires, signal input wires should be separated from electric power lines or load lines.

3.2 Wiring Terminals



IV. Configuration of Controller's Panel

① PV: Present Value Display (RED)
- Display measured value.
- Display various of prompt symbols according to the parameter status.

② SV: Set Value Display (GREEN)
- Display the value of parameter according to the parameter status.

③ Indicator
- Auto-tuning indicator (AT), flash given during operating.
- Control output indicator (OUT1), solid given when active.
- Alarm output indicator (AL1/AL2), solid red when active.

④ Function Key
- Call out, confirm and confirm parameters.

⑤ ▼ , ▲ Adjustment Key
- To adjust parameter.

V. Operation

5.1 Parameter Description Specification

1. After the controller is switched on, the PV display window shows flag and SV display shows the calibration model of the temperature control. After 2 seconds, the PV display shows the current measured value and the SV display shows the current set value. If the measured value is over the upper limit or the measurement value is under the lower limit of the measurement range, after 2 seconds, the PV display shows the measurement status.
2. How to set the temperature value: Press the ▼ key the PV display shows SP value. Press the ▼ or the ▲ key until the desired value is reached on the SV display. Press ◑ KEY, system return to the standard model state.
3. How to set the Control Parameters: Pressing the ◑ KEY more than 3 seconds, the PV display would be with three digit groups symbol of the control parameter (Should see Table 1). Press the ▼ or the ▲ key to modify the desired value. Keep pressing the ◑ key, the PV display would be switched parameters model accordingly. Press the ▼ or the ▲ key to modify the needed value for multi-set parameter. Press the ◑ KEY again for more than 3 seconds, system will return to the standard model state.
4. How to set the parameter with lock: Set the parameter Loc to 1 to be protected by a password.
5. If there is no operation on the keypad for about over 30 seconds, the thermocouple is connected or the sensor value is over the measuring range, the PV display window will show the corresponding status.

Table 1

Parameter Symbol	Name	Setting Range	Description	Explanation
AL1 / oUt	Alarm Setting	-1999 ~ 9999 °C	Setting of Alarm1 Temperature value or set alarm output on condition (refer to page 8)	100 on 100 off
P / P	Proportional Band	0 ~ 9999 °C	Proportional action adjustment. When sensor the value of P, the less the proportional action and the less the control gain (P=0 as ON/OFF control), for a fast dead zone.	100 on 100 off
I / I	Integral Time	0 ~ 9999	Integral action time adjustment. The more the value of I, the less the integral action. (I=0 is PD control). For a fast dead zone.	240
d / d	Derivative Time	0 ~ 9999 Seconds	Derivative action time adjustment. The more the value of D, the more the differential action, which can overcome overshoot.	60
Pv / Pv	Proportional constant (Proportional on set) (Temperature on set) with ON/OFF (Control off)	0.0 ~ 1.0	It used to combine proportional band. If set to 0.0 ~ 1 control (the output amplify value) as the steady state of the error. Increase Pv can eliminate the steady-state error, but it will be unstable. Decrease Pv can improve the stability, but it will be slow.	0.5
T / t	Control Cycle	1 ~ 999 Seconds	When the relay output T: 20S, SSR and 0 controlled mode is recommended. For contactor output T to adjust to 1 ~ 5 with relay as factory mode	20
Pb / Pb	Offset of the Process Value	Full Range	Using the current the measurement error caused by the sensor or the system.	0
LOC / LOCK	Control Lock	0000 ~ 0003	0000 : All parameters can be operated 0001 : Only the Set Point Value can be operated 0002 : All parameters cannot be operated	0000

VI. Service and Maintenance

* The controller is sealed in dustproof and moisture-proof. Do not open the shell without permission.
* Please keep the controller in a dry place with low humidity.

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Mac 5000 User Manual

E Durkheim

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