

Manual for dimensions & functions

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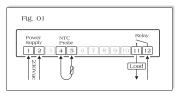
(●) C∈ □ ISO INNOBIZ

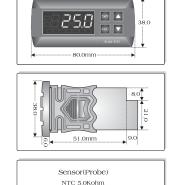






*. Drilling Template: B,:70,5xH,:30,0xD,:60,0mm





Stainless Housing - 50.0mm -

Please be sure to read and fully understand the notices before using it.

At Model "Aum-KN", you can choose Heating or Cooling.

- a. When "Aum-KN" is connected to 230Vac power and a sensor after power on, the sensing temperature will be shown on its window.
- b. Whenever "Set" key is pressed, the next function will be chosen (Selection Value ⇒ Differential Value ⇒ Calibration ⇒ Time Delay ⇒ High Alarm ⇒ Low Alarm ⇒ Alarm mode ⇒ Alarm Differential Value). However, "Calibration" can be selected by pressing "Set" and "H/C" key at the same time.
- c. After selecting a function by "Set" key, revise the values by pressing "▲/▼" key. Then, press "Set" key again to complete the setting. If 10 minutes pass after the setting, the present temperature will be displayed on the window automatically. Or, if you press continuously up to the end of all modes, the present temperature will be displayed. When you press "▲/▼" key in the function to be adjusted, the mode is blinking on the window.
- d. When changing the mode of "Heat/Cool". Pressing the "H/C" key for 5 seconds, the "HEAt" is displayed. And press the "▲/▼" key in the above situation, and then the "HEAt/ Cool" mode is selected. This mode must be matched with "Load".
- e. When the temperature sensor is disconnected or short, "-Lo-" will be displayed on the window
- f.. The relay(5A/250Vac) is for signals only. It should not exceed 100w/230Vac.
 - *. All specifications are subject to change without notice.



Method of program loading

The **Dif**ferential value is as applied follows:

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No.1 : Selection V (SV) Range : -20.0~99.9°C Apply: Heater/Cooler

a. Select a function with "Set" key & set the value by pressing "▲/▼" key. Then, "Set" key must be pressed to finalize the new setting. b. Selection Value is as follows: -20.0°C <(S,V)+(Dif)+(Ca)< 99.9°C.



No.2 : Differential V.(Dif) Range: 0.1 ~ 12.7°C Apply: ± Select'n Value

For heating, if the "SV" 25.0, "Dif" 2.0, the working range will be within 23.0~25.0°C. For cooling, if the "SV" 25.0. "Dif" 2.0 the working range will be 25.0~27.0°C



No.3: Calibration(Ca) Range: 0.0 ~ +/-6.3°C Apply: +/-Present Temp

When the sensor is installed in the away from the controller, This function compensate the difference of the actual temperature by the extended wire's resistance value



It can be selected to press the "Set & H/C" key at the same time,

No.4 : Time Delay(TD) Range: 00:00~15:00(m:s) Apply: R1 "OFF" ▶ Delay

This function protects a machine from the damage that can be resulted from frequent operation by delaying the operation of a relay during the set value. The relay won't operate for the set value of Time Delay from the time of "OFF" of the relay,



It protects a machine from the chattering due to noise.

No 5: High Alarm & Lock Bange : S.V. < 99.9°C Apply: Alarm lamp The S.V is limited within the highest limit value, It's "Lock" function,

If the present temperature exceeds the highest limit, the -Hi- lamp on the window will be turn on, The alarm output is possible in the Aum-KNA,



No.6: Low Alarm & Lock Range: -20.0 < S.V. Apply: Alarm lamp

If the present temperature exceeds the lowest limit, the -Lo- lamp on the window will be turn on. The alarm output is possible in the Aum-KNA.



No.7: Alarm mode Range: AL:ALert/AL:FLick Apply: Alarm

a. There are two different signals with regard to the function of alarm, One is a state of "Alert"=Continuity/ "FLick"=Flash(Dif, 0,0°C), b. Press "▲/▼" key to choose "AL:FL / AL:AL".

The S.V is limited within the lowest limit value, It's "Lock" function,



The set value of the "Dif"(R2) applies to alarm (High+Dif,)/(Low-Dif, b. If you want to operate an auditional property of alarm, the differential value should be set to protect the machine At this time, No.7 should be AL:AL.



H/C + ▲/▼ Convert Range: HEAt/COOL Apply: Load Relay

a, press "▲" key while pressing "H/C" key after 5 seconds, "HEAt" and the other "▼" key, "cool" mode will be changed functions. b. It must be matching the load, the operation of Heat/Cool can be





Cautions in use

Mod : Aum-KN

Please avoid excessive rising of temperature, humidity and impact,

apply the output relay

NTC Sensor ← Please it upright to prevent water droplet at the end part of sensor.

- Keep it away from high voltage device or power generator and motor, Please wait for 5 seconds to turning it on again to avoid electric impact.
- Use it between 0~60°C in temperature, 60% humidity around the controllers.
- Please install in safe from strong acids, alkalis, oil, dust & direct rays of sun,
- Please set safe protection at the double circuit when using at expensive appliances (Freezer, Heater and motor),

