

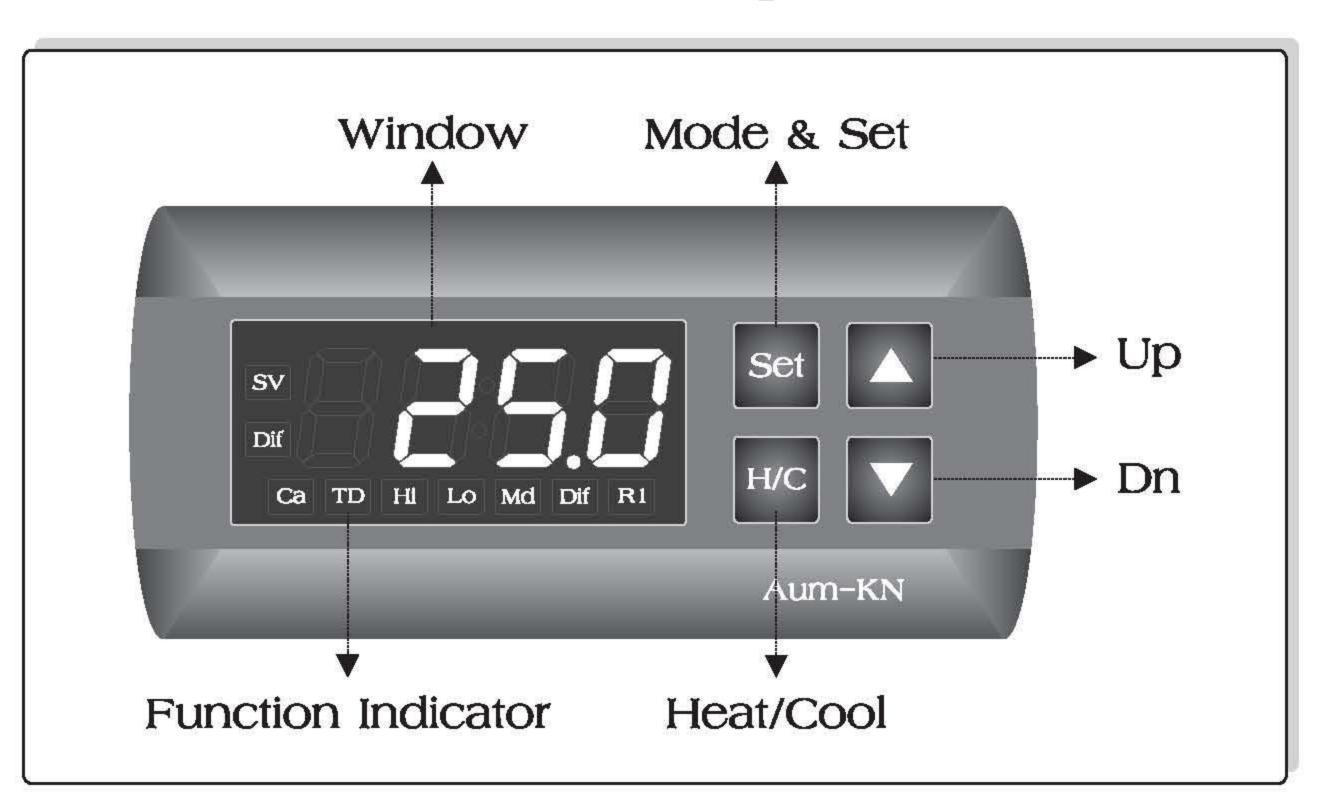
Manual for dimensions & functions

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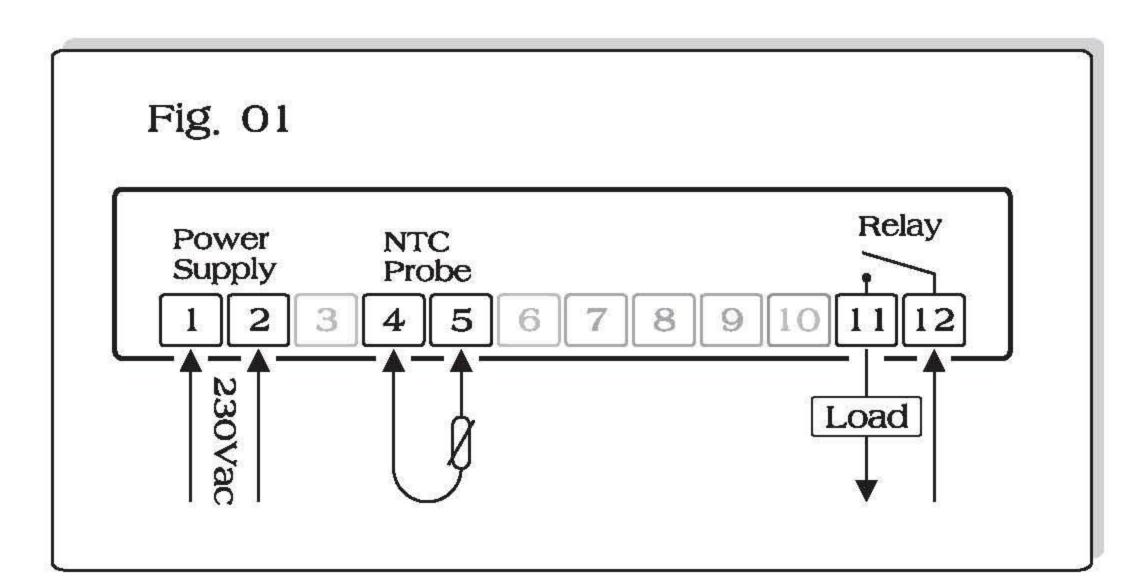
ISO INNOBIZ



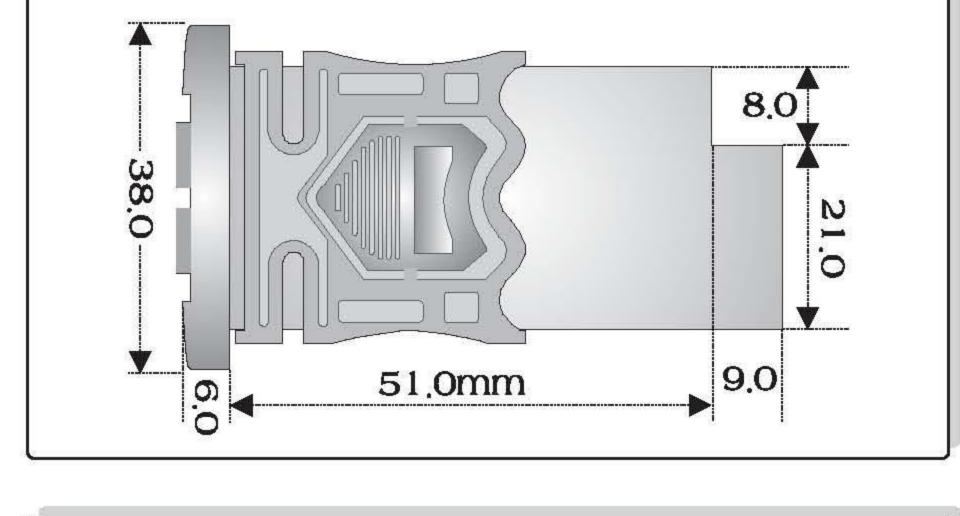


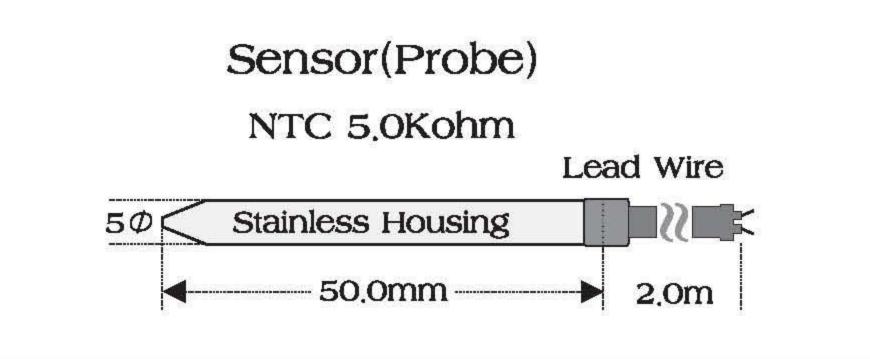
Color: Black

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









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 ⇒ **Dif**ferential 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.
- .. The relay(5A/250Vac) is for signals only. It should not exceed 100w/230Vac.
 - *. All specifications are subject to change without notice.

Maxthermo-Gitta Corp.

Method of program loading

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

by the extended wire's resistance value.

working range will be 25.0~27.0°C.

on the window will be turn on.

Mod.: Aum-KN

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

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

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

When the sensor is installed in the away from the controller,

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

If the present temperature exceeds the highest limit, the -Hi- lamp

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

value of Time Delay from the time of "OFF" of the relay.

b. It protects a machine from the chattering due to noise.

The alarm output is possible in the Aum-KNA.

This function compensate the difference of the actual temperature



300

No.2 : Differential V.(Dif) Range : $0.1 \sim 12.7^{\circ}C$ Apply: ± Select'n Value

No.3 : Calibration(Ca) Range: $0.0 \sim +/-6.3$ °C

Apply: +/-Present Temp. b. 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 No.5: High Alarm & Lock

Range: **S.V.** < **99.9°C** Apply: Alarm lamp

If the present temperature exceeds the lowest limit, the -Lo- lamp No.6: Low Alarm & Lock on the window will be turn on. Range: -20.0 < S.V. Apply: Alarm lamp

The alarm output is possible in the Aum-KNA. b. The S.V is limited within the lowest limit value, It's "Lock" function,

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".

ALAL

No.8: R2 Differential(Dif) Range: 0.0 ~ 12.7°C Apply: High(+), Low(-)

a. The set value of the "Dif"(R2) applies to alarm (High+Dif.)/(Low-Dif.) b. If you want to operate an auxiliary machine (Heater/Cooler) instead 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 apply the output relay.



Mod.: Aum-KN



Cautions in use

Please avoid excessive rising of temperature, humidity and impact.

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

3. Keep it away from high voltage device or power generator and motor. 4. Please wait for 5 seconds to turning it on again to avoid electric impact.

5. Use it between 0~60°C in temperature, 60% humidity around the controllers.

6. Please install in safe from strong acids, alkalis, oil, dust & direct rays of sun.

7. Please set safe protection at the double circuit when using at expensive appliances (Freezer, Heater and motor).

Maxthermo-Gitta Corp.