



CONOTEC[®] Digital Timer Controller
www.conotec.co.kr



CNT - T1

1 Cautions for safety

Be sure to read cautions before use for correct use.

※ The specifications and exterior sizes described in this manual may be subject to change for improving product capacity.

1. Safety Precautions

- This product was not manufactured as a safety device. Therefore, in case of using it as a controller such as for a device that may cause casualty, serious damage to peripheral devices, and tremendous loss of property, be sure to attach double safety devices.
- Do not wire or inspect or repair while power is on.
- In case of supplying power, be sure to check a terminal number for connection.
- This device should not be disassembled, processed, improved, or repaired.

2. Caution

- Before the installation of this device, understand fully how to use, safety regulations or warnings, and be sure to use within specified related specifications or related capacities.
- Do not wire or install for a motor or solenoid with great inductive load.
- During the extension of a sensor, use a shielding wire, and do not make it unnecessarily longer.
- Do not use the same power supply or any part that generates arc during closing or opening directly near the power supply.
- A power line should be far apart from a high-tension wire, and the device should not be installed in a place containing much water, oil, or dust.
- Do not install it in a place under direct light or exposed to rain.
- Do not install it in a place with strong magnetism or noise or vibration or impact.
- Put it far apart from a place that may release strongly alkaline or strongly acidic substances, and use an independent pipe.
- Do not spray water directly on it for cleaning in case of installing it in the kitchen.
- Do not install it in a place where temperature/humidity exceeds rating.
- Take caution not to break a sensor wire or make any scratch.
- A sensor wire should be away from a signal line, power, and load line, and use an independent pipe.
- In case of disassembling or modifying this product voluntarily, it may not be applied with warranty service.
- A Δ mark on the terminal circuit diagram is a safety mark as warning or caution.
- Do not use it near any device (harmonics welder, harmonics, harmonics radio, and large capacity SCR controller) that generates strong harmonics noise.
- In case of using it with any other method than one designated by a manufacturer, injury or loss of properties may occur.
- As it is not a toy, keep out of the reach of children.
- Installation must be done by a relevant professional or a qualified person.
- Our company shall not be responsible for any damage caused by failing to observe the contents specified in the above warnings or cautions or by the fault of a consumer.

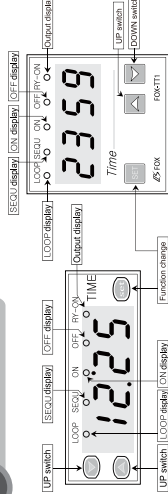
Danger

- Caution, risk of electric shock
- Electric Shock - Do not contact with AC terminal during current carrying. This may cause electric shock.
- Input power must be blocked when checking input power.

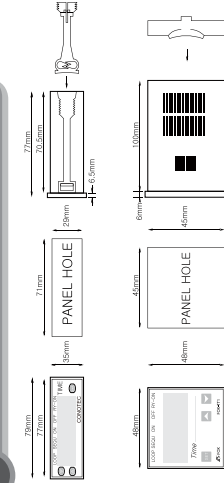
2 Models

| Model | Control output | Functions |
|-------------------|----------------------------------|------------------|
| CNT-T1 FOX-TT1 | Relay contact MAX : 250Vac 2A | -Control by time |

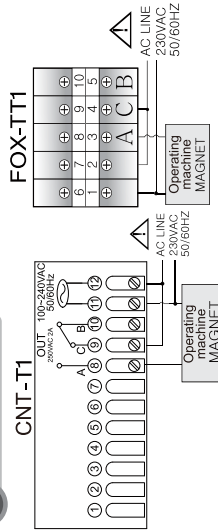
3 Part Names



4 Dimensions



5 Connections

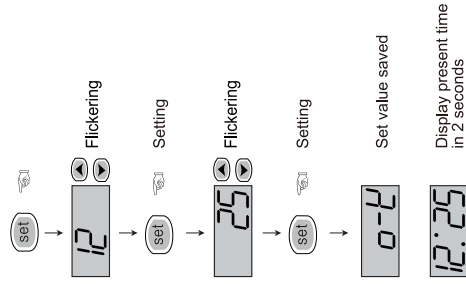


6 Setting Range & Default value

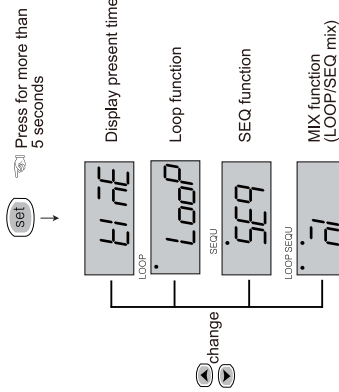
| Function | Display | Range | Default | Remarks |
|--------------|---------|---------------|---|--------------------------------------|
| Time Setting | 12:12 | 00:00 ~ 23:59 | - | Present time |
| LOOP | Loop | 00:00 ~ 23:59 | ON 1 minute OFF 1 minute | Cyclic operation |
| SEQ | SEQ | 00:00 ~ 23:59 | CH01 ON hour: 2:00 CH02 OFF hour: 12:00 ON : ... : -- OFF : ... : -- | Setting time zone operation |
| MIX | ni | 00:00 ~ 23:59 | LOOP ON: 1 minute LOOP OFF: 1 minute CH01 ON hour: 12:00 CH01 OFF hour: 2:00 CH02 ~ CH24 ON : ... : -- OFF : ... : -- | Setting time zone & cyclic operation |

7 Sequence to change the set value

Timer adjusting



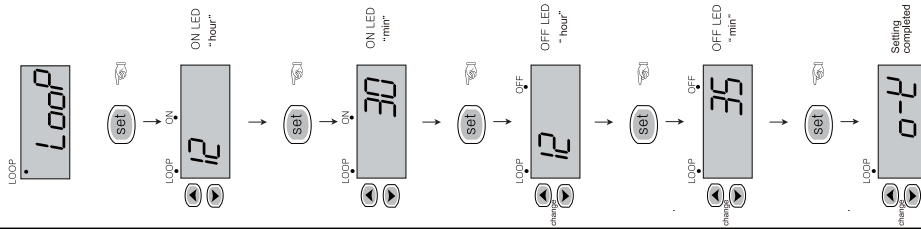
Function selection



Program setting

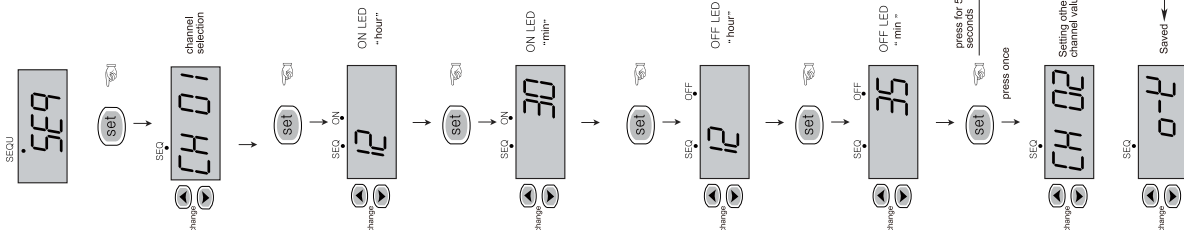
LOOP ON/OFF time setting

※ After selection of function



SEQ ON/OFF time setting

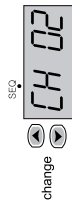
※ After selection of function



Program Setting

Setting Method for SEQ.CH2-CH24

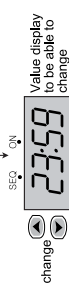
※ After channel selection



Channel value setting

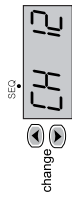


Down key 1 time



Value display to be able to change

※ Setting method for the unused channel



Channel setting



Increase one more time at 23:00 as set value



Press UP key for 1 time



Unable to use channel

Program Setting

Time setting for MIX ON/OFF

※ After function selection



change



change



change



change



change



change



change



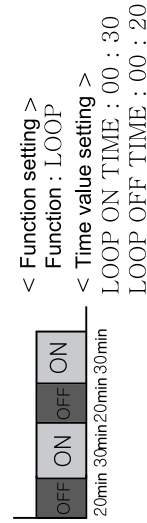
8 Function Description

- Time function: It is a function to display the current time. Press SET key to set the time part to blink, with UP, DOWN key. Press SET key again and "minute" part will blink and "minute" can be set. Press SET key again to store the set value and display the current time.
- LOOP function: It sets the ON time and OFF time and repeats ON / OFF periodically.
- SEQ function: There are 24 CHANNELs and you can set ON / OFF time to set CHANNEL 1 to 24 sequentially.

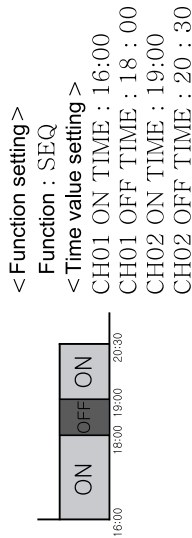
- MIX function: ON / OFF time setting of LOOP is activated within ON time setting of 24 CHANNEL

9 T1 Applications

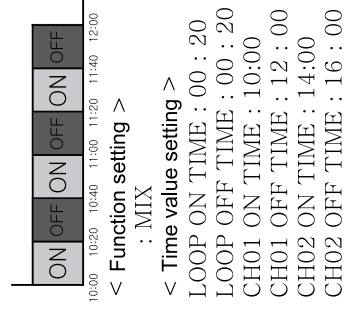
What is the setting value when the heater is turned ON for 30 minutes and then turned OFF for 20 minutes?



What is the setting value when the heater is operated from 4 pm to 6 pm and from 7 pm to 8:30 pm?



What is the setting value when the heater is repeatedly turned ON and OFF between 10:00 and 12:00 and between 14:00 and 16:00 for 20 minutes?



10 Simple troubleshooting tip

- If error is displayed while using the product:

Err1 is displayed when the DATA memory element is damaged inside the product as it is affected by powerful noise from outside while in use. In this case, contact our company for customer service. While the controller is equipped with supplementary measures for outside noise, it cannot endure infinite noise.

In case of the nose of 2KV or more flows in, inside of the product may be damaged.

※ The above specification may be changed without prior notice for further improvement in performance.

Please read and observe precautionary instructions during handling of the product.

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E-mail : comotec@comotec.co.kr

※ This instrument is suitable for the following environments.

- Major products and development
 - Digital temperature, humidity controller
 - Digital timer, current/voltage meter
 - Other product development

Ambient temp. : 0°C ~ 60°C

Ambient humi. : Less than 90% RH

Rated power : 220VAC ± 10% 50/60Hz