

**User Manual****CNT-500R**

- Temperature, humidity, CO<sub>2</sub> monitor and control
- RS485 Communication (MODBUS-RTU)
- Simple settings

**1 Safety precautions****Be sure to read the precautions before using the product for proper and safe use.**

\* The specification and external dimensions described in the handling instruction may be changed without prior notice to improve the product performance.

**⚠ Warning**

1. Since this product is not manufactured as a safety device, be sure to use with dual safety devices in the event of using the product with devices that may cause accidents or property damage or when used for controlling.
2. Do not perform wiring, inspection or maintenance while the power is connected to the product.
3. The terminal number must be checked when connecting power.
4. Do not disassemble, process, modify, or repair this device.

**⚠ Cautions**

- Before using this product, be sure to familiarize yourself with usage, safety regulations, and warnings and use only within the specifications or capacity.
- Do not wire or install motors or solenoids with large inductive load.
- Use a shield cable in sensor extension and do not make the cable unnecessarily longer.
- Do not use parts that generate arc nearby when opening/closing or the same power source.
- The power line must be installed away from the power cable and avoid places where water, oil, or dust are severe.
- Do not install the product in a place exposed to direct sunlight or rain.
- Do not install the product in a place with a strong magnetic field, severe noise, vibration or impact.
- Avoid strong alkaline or strong acidic materials, and use independent piping.
- Do not spray water directly for cleaning when installing the product in the kitchen.
- Do not install the product in locations where temperature and humidity exceed the rating.
- Care should be taken not to cut the sensor wires or avoid scratch.
- Sensor wires should be away from signal lines, power, electric power and load lines, and use independent piping.
- Do not disassemble or modify this product. If so, the product cannot receive maintenance.
- The mark ⚠ on the terminal wiring diagram is a safety statement regarding warning and caution.
- Do not use the product near equipment (high-frequency welding machine, high-frequency sewing machine, high-frequency radio, - high-capacity SCR controller) where strong high-frequency noise occurs.
- Use of the product other than the method specified by the manufacturer may result in personal injury or property damage..
- The product is not a toy, keep out of the reach of children.
- The product must be installed by specialists or qualified personnel only.
- Conotec is not responsible for any damages resulting from user's non-compliance with the aforementioned warnings or cautions, or user's faults.

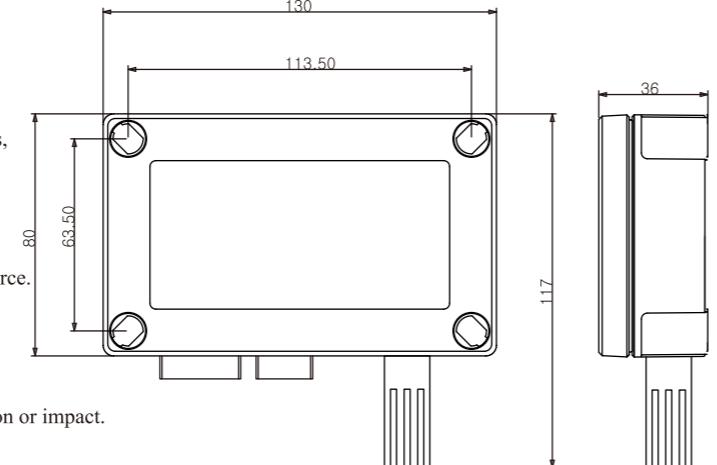
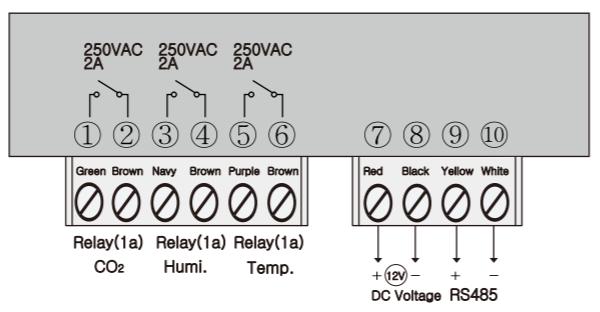
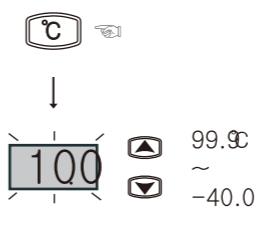
**⚠ Danger**

- Caution, risk of electric shock
- Electrical shock - Do not contact with the AC terminal while applying electric current. There is a risk of electric shock.
- The input power should be shut off when checking input power.

**2 Components****■ Appearance and components**

1 Display the state of current output and communication and measurement value unit (O:Communication status, C:CO2 Output , H:Humidity Output, T:Temp. Output, P:CO<sub>2</sub> Unit, %:Humi. Unit, °C:Temp. Unit)

- 2 Display the current measurement value
- 3 CO<sub>2</sub> Mode change key
- 4 Humidity mode change key
- 5 Setpoint (rounding up) control key
- 6 Setpoint (rounding down) control key
- 7 Temperature mode change key

**3 External and panel dimension****4 Terminal connection diagram****■ Input terminal connection diagram****5 Sequence of Temp. setpoint change****Temperature Settings**

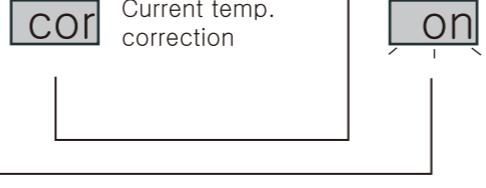
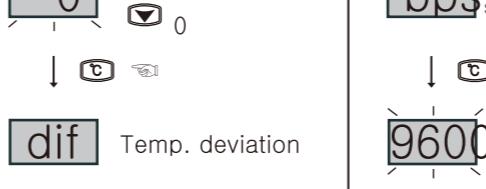
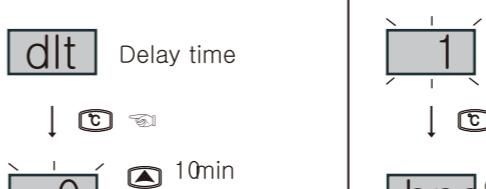
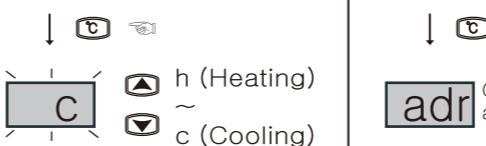
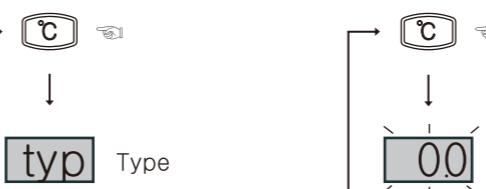
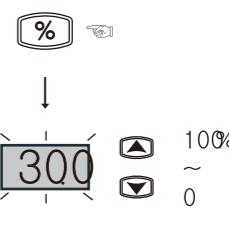
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250 Current temperature

**Temperature Program Settings**

Hold for more than 3 seconds

**6 Sequence of Humi. setpoint change****Humidity Settings**

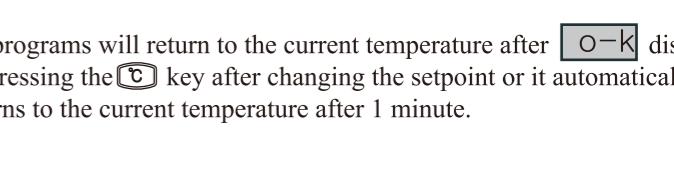
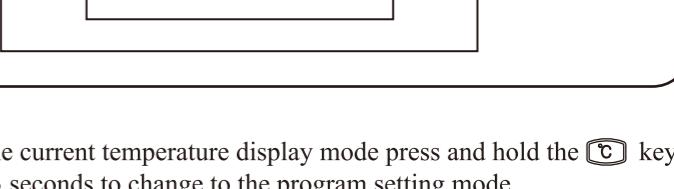
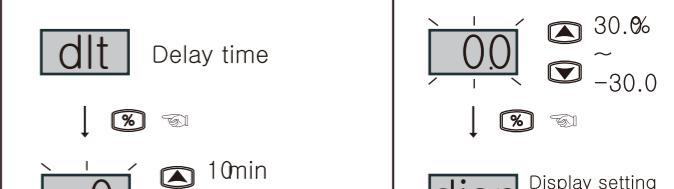
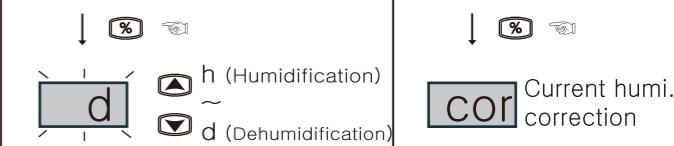
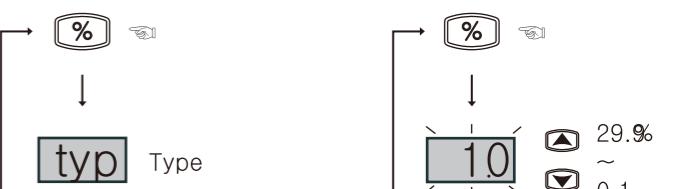
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500 Current humidity

**Humidity Program Settings**

Hold for more than 3 seconds



\* In the current temperature display mode press and hold the °C key for 3 seconds to change to the program setting mode.

\* All programs will return to the current temperature after O-K display by pressing the °C key after changing the setpoint or it automatically returns to the current temperature after 1 minute.

