

# Autonics Counter/Timer CT SERIES INSTRUCTION MANUAL



Thank you for choosing our Autonics product. Please read the following safety considerations before use.

## Safety Considerations

- 1. Please observe all safety considerations for safe and proper product operation to avoid hazards.
- 2. **Warning** Failure to follow these instructions may result in serious injury or death.
- 3. **Caution** Failure to follow these instructions may result in personal injury or product damage.

## Caution

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)
2. Failure to follow this instruction may result in fire, personal injury, or economic loss.
3. Do not connect, repair, or inspect the unit while connected to a power source.
4. Failure to follow this instruction may result in electric shock or fire.
5. Do not disassemble or modify the unit.
6. Failure to follow this instruction may result in electric shock or fire.

## Caution

1. When connecting communication, the power/sensor input and relay output, use AWG 2.0(0.50mm) cable or over, and tighten the terminal screw with a tightening torque of 0.74 to 0.90N.m.
2. Failure to follow this instruction may result in fire or malfunction due to contact failure.
3. Use the unit within the rated specifications.
4. Failure to follow this instruction may result in fire or product damage.
5. Use dry cloth to clean the unit, and do not use water or organic solvent.
6. Failure to follow this instruction may result in electric shock or fire.
7. Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
8. Failure to follow this instruction may result in fire or explosion.
9. Keep metal chip, dust, and wire residue from flowing into the unit.
10. Failure to follow this instruction may result in fire or product damage.

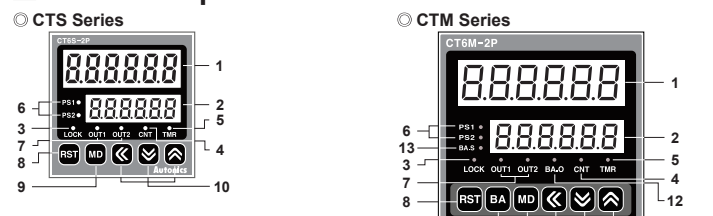
## Manual

For the detail information and instructions, please refer to user manual and user manual for communication, and be sure to follow cautions written in the technical descriptions (catalog, homepage). Visit our homepage (www.autonics.com) to download manuals.

## Ordering Information

CT	6	M	-	2P	4	T
Communication	No-mark	None				
Power supply	2	24VAC 50/60Hz, 24-48VDC				
Output	1P	1-stage preset				
Size	S	DIN W48xH48mm				
Item	CT	Counter/Timer				

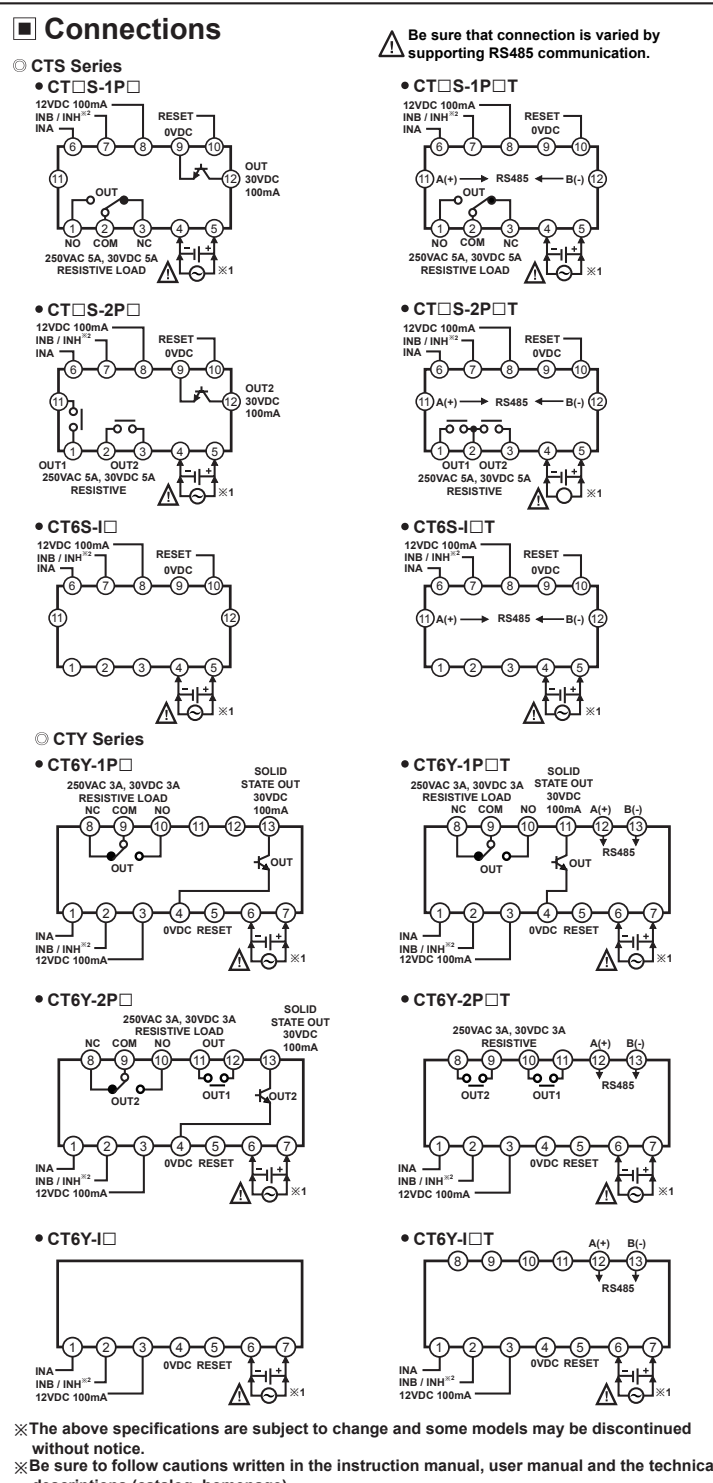
## Unit Description



Model	Changed	Note
CT4S-1P	PS2-PS	There are no PS1, OUT1 LEDs
CT6S-1P	PS2-PS	There are no PS1, OUT1, OUT2, BA.S, BA.O LEDs, [BA] key.
CT6M-1P	PS2-PS	There are no PS1, OUT1, OUT2, BA.S, BA.O LEDs, [BA] key.

1. Counting value display component (red) RUN mode: Displays counting value for counter operation or time progress value for timer operation. Function setting mode: Displays setting item.
2. Setting value display component (yellow-green) RUN mode: Displays setting value. Function setting mode: Displays setting content.
3. Key lock indicator (LOCK): Turns ON for key lock setting.
4. Counter indicator (CNT): Turns ON for counter operation.
5. Timer indicator (TMR): Flashes (progressing time) or Turns ON (stopping time) for timer operation.
6. Preset value checking and changing indicator (PS1, PS2): Turns ON when checking and changing preset value.
7. Output indicator (OUT1, OUT2): Turns ON for the dedicated control output ON.
8. [RST] key RUN mode: Press the [RST] key to reset the counting value. BATCH counter mode: Press the [RST] key to reset the batch counting value.
9. [MD] key RUN mode: Hold the [MD] key over 3 sec. to enter function setting mode (parameter setting). Hold the [MD] key over 5 sec. to enter function setting mode (communication setting). Function setting mode: Press the [MD] key to select function setting mode parameter. Hold the [MD] key over 3 sec. to return RUN mode.
10. [F] key RUN mode: Press the [F] key to enter preset digts. Preset mode: Press the [F] key to move preset digts.
11. [L] key RUN mode: Hold the [L] key over 1 sec. to enter Function setting check mode. Preset mode: Press for increasing or decreasing preset value. Function setting mode: Changes the settings. Function setting check mode: Press the [L] key to move the previous parameter. Press the [L] key to the next parameter.
12. [BA] key RUN mode: Press the [BA] key to enter BATCH counter indication mode.
13. [BA] key (red) BATCH preset value checking and changing indicator (BA.S) (yellow-green): Turns ON when checking and changing BATCH preset value.

## Connections



Turn OFF the power before changing input logic (PNP/NPN)

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