

Autonics Counter/Timer CT SERIES INSTRUCTION MANUAL



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

Safety Considerations

- Please observe all safety considerations for safe and proper product operation to avoid hazards.
- Safety considerations are categorized as follows.
 - Warning:** Failure to follow these instructions may result in serious injury or death.
 - Caution:** Failure to follow these instructions may result in personal injury or product damage.
 - The symbols used on the product and instruction manual represent the following:
 - ⚠ represents caution due to special circumstances in which hazards may occur.

Warning

- 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.) Failure to follow this instruction may result in personal injury, fire, or economic loss.
- The unit must be installed on a device panel before use. Failure to follow this instruction may result in electric shock.
- Do not connect, repair, or inspect the unit while connected to a power source. Failure to follow this instruction may result in electric shock.
- Do not disassemble or modify the unit. Please contact us if necessary. Failure to follow this instruction may result in electric shock or fire.

Caution

- Do not use the unit outdoors. Failure to follow this instruction may result in shortening the life cycle of the unit, or electric shock.
- When connecting the power input and relay output cables, use AWG20 (0.05mm²) cables and make sure to tighten the terminal screw bolt above 0.74N·m to 0.90N·m. Failure to follow this instruction may result in fire due to contact failure.
- Use the unit within the rated specifications. Failure to follow this instruction may result in shortening the life cycle of the unit, or fire.
- Do not use loads beyond the rated switching capacity of the relay contact. Failure to follow this instruction may result in insulation failure, contact melt, contact failure, relay broken, or fire.
- Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit. Failure to follow this instruction may result in fire or explosion.
- Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat, vibration, or impact may be present. Failure to follow this instruction may result in fire or explosion.
- Keep dust and wire residue from flowing into the unit. Failure to follow this instruction may result in fire or product damage.

Manual

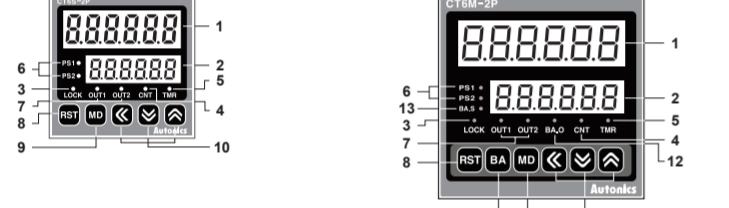
For more information about counter/timer, refer to user manual and user manual for communication. Visit our website (www.autonics.com) and download it.

Ordering Information

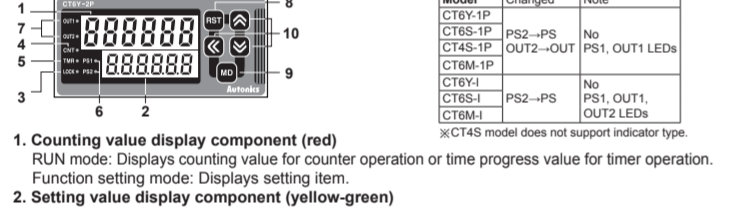
CT	6	M	-	2P	4	T	Communication	No-mark	None
						Power supply		2	24VAC 50/60Hz, 24-48VDC
						Output		1P	1-stage preset
								2P	2-stage preset
								I+1	Indicator
						Size		S	DIN W48×H48mm
								M	DIN W72×H36mm
								L	DIN W72×H72mm
						Display digits		4	9999 (4 digits)
								6	999999 (6 digits)
						Item		CT	Counter/Timer

Unit Description

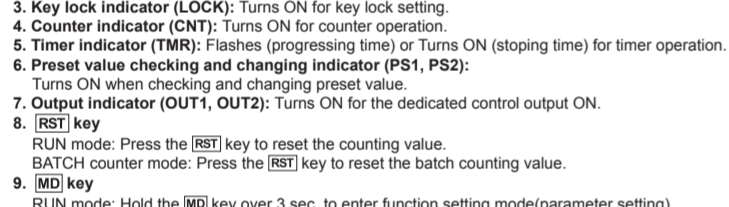
CTS Series



CTM Series



CTY Series

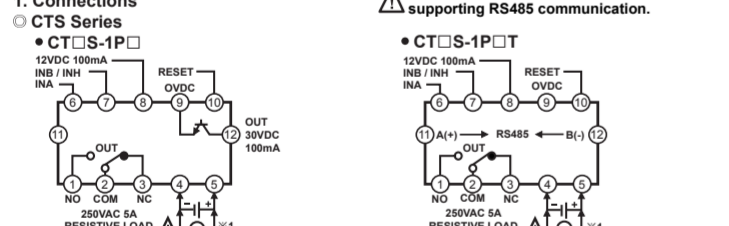


- Counting value display component (red)
RUN mode: Displays counting value for counter operation or time progress value for timer operation.
Function setting mode: Displays setting item.
- Setting value display component (yellow-green)
RUN mode: Displays setting value.
Function setting mode: Displays setting component.
- Key lock indicator (LOCK): Turns ON for key lock setting.
- Counter indicator (CNT): Turns ON for counter operation.
- Timer indicator (TMR): Flashes (progressing time) or Turns ON (stopping time) for timer operation.
- Preset value checking and changing indicator (PS1, PS2): Turns ON when checking and changing preset value.
- Output indicator (OUT1, OUT2): Turns ON for the dedicated control output ON.
- 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.
- 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.
- Key key
1) Key key
RUN mode: Press the key key to enter preset mode.
Preset mode: Press the key key to move preset digits.
2) Key key
RUN mode: Hold the key 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 key key to move the previous parameter.
Press the key key to the next parameter.
- BA key
RUN mode: Press the BA key to enter BATCH counter indication mode.
- BATCH output indicator (BA.O) (red)
- BATCH preset value checking and changing indicator (BAS) (yellow-green): Turns ON when checking and changing BATCH preset value.

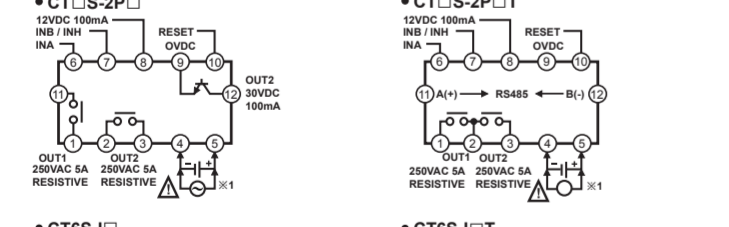
Guide for connection

1. Connections

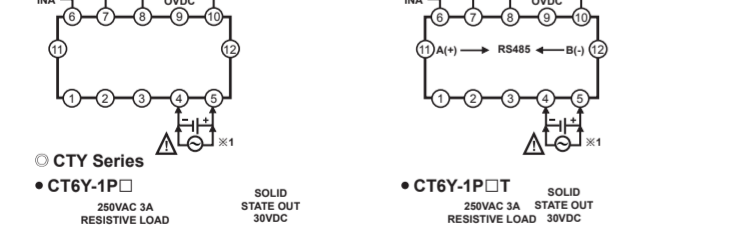
CTS Series



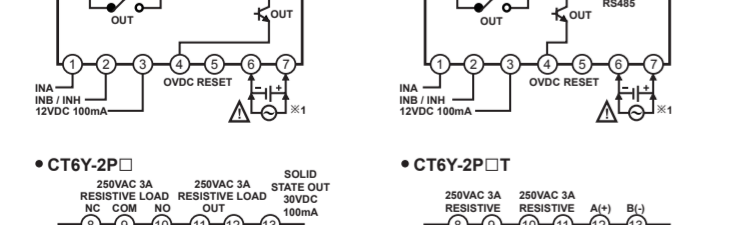
CTM Series



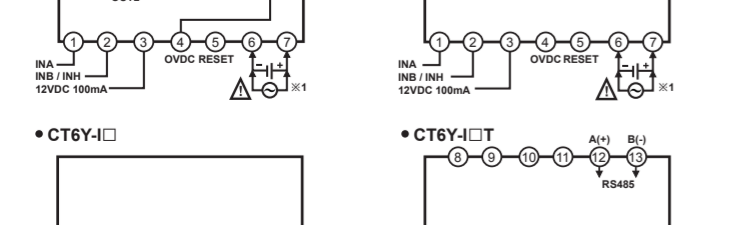
CTY Series



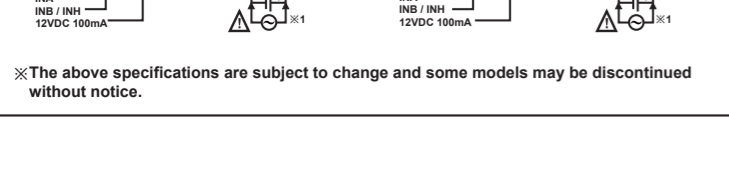
CT6S-1P□



CT6S-1I□



CT6S-2P□



CT6S-2I□

CT6S-4□

CT6S-4I□

CT6S-6□

CT6S-6I□

CT6S-12□

CT6S-12I□

CT6S-24□

CT6S-24I□

CT6S-48□

CT6S-48I□

CT6S-96□

CT6S-96I□

CT6S-192□

CT6S-192I□

CT6S-384□

CT6S-384I□

CT6S-768□

CT6S-768I□

CT6S-1536□

CT6S-1536I□

CT6S-3072□

CT6S-3072I□

CT6S-6144□

CT6S-6144I□

CT6S-12288□

CT6S-12288I□

CT6S-24576□

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CT6S-49152□

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CT6S-98304□

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