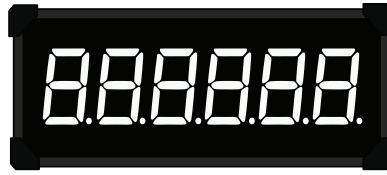




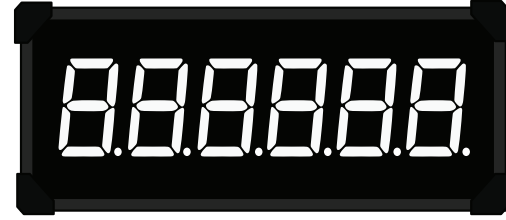
ขอเบิกสินค้าถ้วยใหม่



CMT-007AN



CMT-007B2



CMT-007B4

Description

- Digital Counter: CMT-007AN / CMT-007B2 / CMT-007B4 Series is a digital counting device.
- Operates as both a preset counter and a totalizer in a single unit.
- Multiplier and divider values can be set for both the preset counter and the totalizer, and the initial value after reset can also be set.
- Provides 2 relay outputs for the preset counter and 1 relay output for the totalizer.
- Operation modes: Normal, Sum Up, Sum Down, And Up, And Down, Hold Up.
- Up to 7 selectable relay output modes for the preset counter.
- Up to 3 selectable relay output modes for the totalizer.
- Digital inputs provided for reset count, reset total, and show total.
- 6-digit 7-segment display: CMT-007AN with 0.56-inch display, CMT-007B2 with 2.3-inch display, and CMT-007B4 with 4-inch display.
- Accepts inputs from various devices such as photoelectric sensors, proximity sensors, encoders, contacts, NPN, and PNP.
- Built-in DC source 24 VDC, 100 mA for supplying power to sensors.
- Timer input function provided to improve counting performance.
- Communication with a computer via RS-485 Modbus RTU.

Operation

Digital Counter: CMT-007AN / CMT-007B2 / CMT-007B4 Series is a digital counting device suitable for industrial production applications. It displays real-time values using a 7-segment display and is used to control production to meet target goals.

It can accept inputs from photoelectric sensors, proximity sensors (NPN/PNP), and encoder inputs, making it suitable for high-speed applications. Contact inputs are suitable for low-speed applications (with a timer input function to improve counting performance).

Operation Mode refers to the operation of Input A and Input B. The operation is divided into 5 modes: Normal (In A+, In B-), Sum Up (In A+, In B+), Sum Down (In A-, In B-), And Up (In A and In B = Count +), And Down (In A and In B = Count -), Hold Up (Hold In A and Trig In B = Count +).

Preset Counter refers to counting up to the preset setpoint, then activating the relay output.

Operation[Con]

or resetting the count value, suitable for controlling production quantities.

Totalizer Counter (only Relay Output 3) refers to cumulative counting of the preset counter value, continuously increasing. It is suitable for statistical collection or total production summation.

- Relay output modes selectable: up to 7 modes for the preset counter.

- Relay output modes selectable: up to 3 modes for the totalizer counter.

Relay Output 1 and Relay Output 2 for the preset counter provide 7 selectable modes:

- **Mode 1: Count Up:** Counts upward until Setpoint 1 is reached, then Relay Output 1 operates. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates, and counting can continue further.

Count Down: Counts downward until Setpoint 1 is reached, then Relay Output 1 operates. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates, and counting can continue further.

- **Mode 2: Count Up / Reset Count:** Counts upward until Setpoint 1 is reached, then Relay Output 1 operates. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates for the preset time, with the count value reset.

Count Down / Reset Count: Counts downward until Setpoint 1 is reached, then Relay Output 1 operates. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates for the preset time, with the count value reset.

- **Mode 3: Count Up / One-Shot:** Counts upward until Setpoint 1 is reached, then Relay Output 1 operates for the preset time. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates, and counting can continue further.

Count Down / One-Shot: Counts downward until Setpoint 1 is reached, then Relay Output 1 operates for the preset time. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates, and counting can continue further.

- **Mode 4: Count Up / One-Shot / Reset Count:** Counts upward until Setpoint 1 is reached, then Relay Output 1 operates for the preset time. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates for the preset time, with the count value reset.

Count Down / One-Shot / Reset Count: Counts downward until Setpoint 1 is reached, then Relay Output 1 operates for the preset time. Counting continues until Setpoint 2 is reached, then Relay Output 2 operates for the preset time, with the count value reset.

- **Mode 5: Counts up and down:** Relay Output 1 operates when the count value is greater than Setpoint 1, and Relay Output 2 stops operating when the count value is less than Setpoint 2.

Operation[Con]

- **Mode 6:** Counts up and down. Relay Output 1 operates when the count value is greater than Setpoint 1, and Relay Output 2 operates when the count value is greater than Setpoint 2.
- **Mode 7:** Counts up and down. Relay Output 1 operates when the count value is less than Setpoint 1, and Relay Output 2 operates when the count value is greater than Setpoint 1 and less than Setpoint 2.
Totalizer Counter operation provides up to 3 selectable modes
***Applicable only to Relay Output 3 of the CMP-72TN.
- **Mode 1:** Total count increases until Setpoint 3 is reached, then Relay Output 3 operates, and counting can continue further.
Total count decreases: Counts downward until Setpoint 3 is reached, then Relay Output 3 operates, and counting can continue further.
- **Mode 2:** Total count increases until Setpoint 3 is reached, then Relay Output 3 operates for the preset time, and counting can continue further.
Total count decreases: Counts downward until Setpoint 3 is reached, then Relay Output 3 operates for the preset time, and counting can continue further.
- **Mode 3:** Total count increases until Setpoint 3 is reached, then Relay Output 3 operates for the preset time and the total value is reset.
Total count decreases: Counts downward until Setpoint 3 is reached, then Relay Output 3 operates for the preset time and the total value is reset.
Digital inputs (dry contact) are provided for reset count, reset total, and show total, allowing easy operation without entering parameter settings via the keypad.

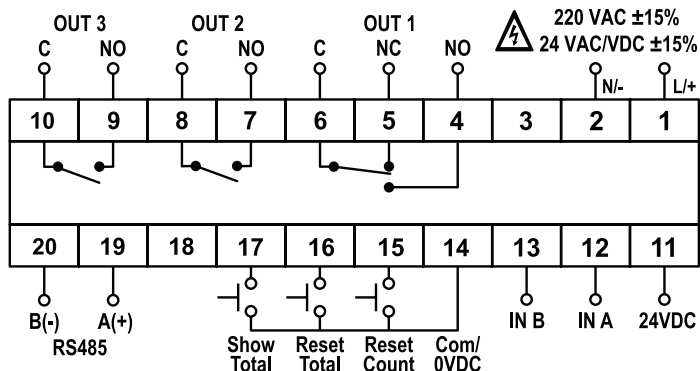
An RS-485 Modbus RTU port is provided for data communication with computers, PLCs, SCADA systems, etc.

Specification

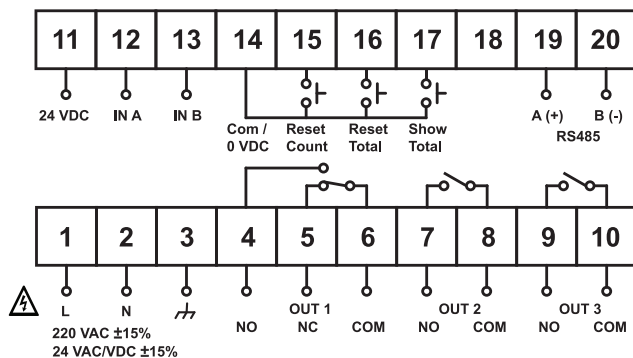
Model		CMT-007AN	CMT-007B2	CMT-007B4
Power Supply		220VAC ±15% 50/60Hz, 24VAC/VDC ±15%		
Power Consumption		3VA	16VA	
Display		7 Segment, 6 Digit, Size 0.56 Inch, 1 Row	7 Segment, 6 Digit, Size 2.3 Inch, 1 Row	7 Segment, 6 Digit, Size 4 Inch, 1 Row
Input	Range Display and Setting	Measurement Range -199999 to 999999		
	Input Frequency	0 to 10 kHz		
	Input Type	Photoelectric Sensor, Proximity Sensor, Encoder, Contact, NPN, PNP		
	DC Source for Sensor	24VDC 100mA (Supply 220V), 24VDC 30mA (Supply 24V)		
	Decimal Point Setting	0 to 0.00000		
	Timer (Input Filter)	0.00 to 10.00 Sec		
	Timer Accuracy	±10 ms		
	Input Reset	Dry Contact		
Output	Relay Output	3 Relay Output 5A/250VAC		
Communication	Protocol	Modbus RTU		
	Baud Rate	4800, 9600, 19200, 38400, 57600 bps		
	Parity	None, Even, Odd		
	Stop Bits	1, 2		
	Data Bits	8 Bits		
	Support Device Node	32		
Ambient Operation	Temperature	-10 °C to 60 °C		
	Humidity	85% RH Non-Condensing		
Ambient Storage	Temperature	-20 °C to 80 °C		
	Humidity	85% RH Non-Condensing		
Protection Degree	Front Protection Rating	IP52	IP30	
	Case Protection Rating	IP30		
Installation		Panel Mounting	Hanging Mounting	
Material		ABS-V0	Body : Aluminum, Display : Plastic (Acrylic)	
Size (mm.)		48 x 96 x 80	155 x 355 x 100	200 x 600 x 100
Wiegth (kg.)		230	1230	2230

Wiring Diagram

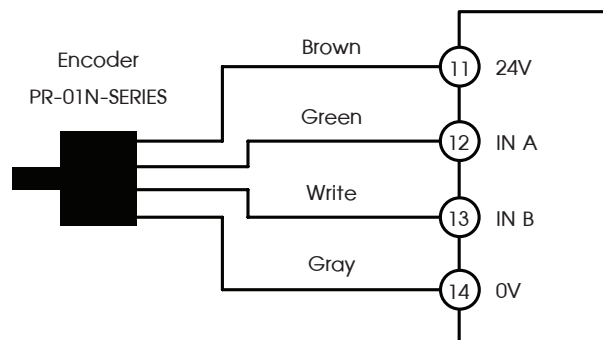
Wiring Diagram CMT-007AN



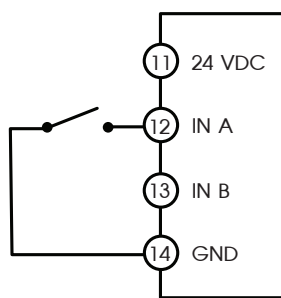
Wiring Diagram CMT-007B2 / CMT-007B4



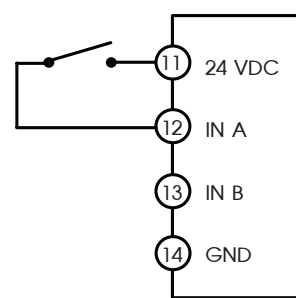
INPUT WIRING EXAMPLES



Active Low (NPN)



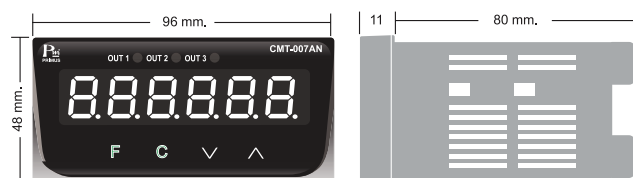
Active High (PNP)



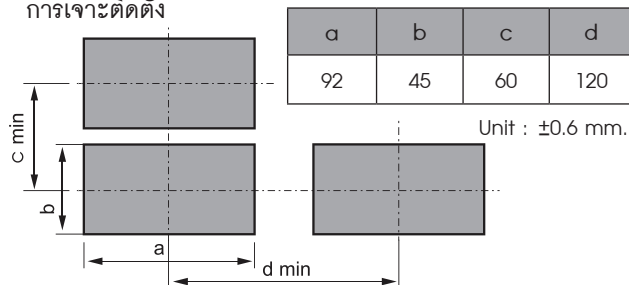
- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

Dimension

CMT-007AN Series



การเจาะติดตั้ง



CMT-007B2 Series



Remote Setting
Big Display RSB-01



CMT-007B4 Series



Ordering Code

CMT-007 Size - Output - Option - Power Supply

Size	
AN	48 x 96 x 80 mm.
B2	155 x 355 x 100 mm.
B4	200 x 600 x 100 mm.

Output	
A	1 Relay Output (SP1)
AB	2 Relay Output (SP2)
ABC	3 Relay Output (TOTAL)

Option	
None	None
M	RS-485

Power Supply	
220	220VAC ±15%
24	24VAC/VDC ±15%