



Electronic Totalising Counters 7 & 8 Decade

CT700
CT800

- 7 or 8 Digit Display
- 96 x 48 mm DIN standard Housing
- Count up or down
- 115/230VAC or 12-28VDC supply
- 12VDC output for proximity sensors etc
- Electronic count rate to 2.5 KHz
- Contact count rate 30 Hz
- Non Volatile Memory-10 year data retention
- NPN or PNP type inputs



DESCRIPTION

These electronic totalising counters provide precision counting for both industrial and laboratory applications. They will accept electronic input signals from proximity switches and shaft encoders, at rates up to 2 KHz and mechanical contacts (switches relays etc) up to 100 Hz.

The CT700/CT800 counters will count UP or Down and the non-volatile memory, if selected, will maintain the count value in the absence of power for over 10 years . Alternatively the count will reset to zero at power on. A front panel reset is standard on the 7 digit model.

Rear panel connections are available for Reset, Inhibit, Count Direction, and Count Input as well as the 12 VDC output for powering sensors and the AC or DC power inputs.

A small 4 way switch, accessible through the side of the instrument allows the user to set up the operation of the counter. This allows selection of the non-volatile memory, PNP or NPN type inputs and slow (switch type) or fast (electronic) input pulses.

Modes of Operation:

- UP Count:** Pulses are counted from zero and overflow at 9999999(9) to 0
- Down Count:** Pulses are counted and underflow at 0 to 9999999(9)

Options

Input Prescaler: These counters are available with a universal input prescaler that can be used to convert the displayed counter total into engineering units. For example, if pulses are coming from a flow meter the prescaler can be set so that the display shows the total volume dispensed in litres.

Serial Data Output: The displayed count value can be transmitted as an RS232 or RS485 type serial output to a remote device. (Such as an Abtek large display unit or a computer). The data is sent as standard ASCII characters in an 8 character burst at preset time intervals.



CT700
CT800

SPECIFICATION

Count Maximum:	9 999 999 (CT700) or 99 999 999 (CT800)
Count direction:	Up or Down
Display:	7 Segment LED, 7.62 mm high
Count Speed:	up to 2 KHz for electronic pulses, or 100 Hz for switch inputs
Input Pulse:	Pulse voltage from 3 to 30 volts—minimum duration 0.5 mS
Inputs:	Reset, Pulse input, Inhibit, Up-down select
Panel Reset:	Front panel reset button on CT700 only
Input type:	Selectable for PNP or NPN type sensors or volt free contact
Supply:	115/240 VAC or 12 - 30 VDC
Power Output :	12 volt DC output @ 50 mA for powering sensors etc.
Power Consumption:	3VA or 250 mA
Environment:	Temperature- -10 to +60 degree Celsius relative humidity- 10% to 90% non-condensing IP65 sealing kit available
Housing:	Plastic moulding
Dimensions:	96 x 48 x 155 mm (148 behind panel including terminals)
Panel Cut-out:	92 x 43 mm
Connections:	Removable plug in rising cage screw terminal block
Order code:	{type} {option 1} {option 2} i.e. CT700, CT800-PS, CT700-RS232

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Manufacturers and Distributors of Electronic Control Components and Systems

