

Battery-powered Counter CT36

- ◆ Low cost
- ◆ 8-digit totalizing LCD display
- ◆ 7-year lifetime without battery replacement
- ◆ 1 to 1000 cps selectable counting speed
- ◆ Front and rear-panel RESET
- ◆ 48x24 mm DIN-sized front panel

CT36 is a simple and low-cost battery-powered electronic counter, enclosed in a small plastic box with 48x24 mm front size. Equipped with a 8-digit LCD display, CT36 can count up to 99999999 units. It has 2 inputs - counting input with counting speed up to 1000 cps and a RESET input. Both inputs can accept input signals from mechanical or electronic switches. A RESET button on the front panel is also available. The device may be equipped with micro-switches allowing front frequency selection as well as front reset key enabling. CT36 is powered by an incorporated lithium battery that has approximately 7 years of life cycle. Thanks to its small size and long-life battery operation, CT36 can be very useful for many applications requiring independent supply and small mounting dimensions such as integration in water meters, gas meters, etc.



Technical specifications

Inputs

Counting input	mechanical contact (NO) or electronic (NPN/PNP/MOS-gate sensor)
- active front	rising
- residual voltage	≤ 0.5 VDC
Input RESET	NO contact or electronic sensor
- function	resets counter to 0
- reset pulse	min. 20 ms
Maximum input frequency	1 Hz, 30 Hz, 1000 Hz, fixed or selectable
ON-sense	< 10 kΩ
OFF-sense	> 750 kΩ

Mode

Counting mode	up counting
Counting range	0...99999999

Indication and controls

Digital display	8 LCD indicators, 9 mm
Front push button	RESET
Side micro-switches	left: select input frequency, right: front reset enable/disable

Power supply

Supply voltage	3 V from lithium battery CR2477
Battery life	≈ 7 years (at 20 °C)

Operating conditions

Ambient temperature	-10...55 °C, non-freezing
Ambient humidity	35...85 %RH
Storage temperature	-25...65 °C, non-freezing
Vibration (malfunction)	0.3 mm at 10...55 Hz for 10 min
Shock (malfunction)	3 x 100 m/s ² (≈ 10 G)
Dielectric strength	2000 VAC for 1 min
Insulation resistance	> 100 MΩ at 500 VDC

Design and materials

Case material	plastic
Mounting	in 45x22 mm panel cut-out
Wiring	screw terminals
Dimensions	48x24(front)x58 mm
Mounting depth	54 mm
Weight	max. 60 g
Protection class	IP20

Ordering code CT36* - G4

Code	Feature or option	Code values
*	Variant	U - w/ selectable input frequency, A - w/ 1 Hz input, B - w/ 30 Hz input, C - w/ 1 kHz input
G4	Reset	D - from input RESET, C - from front-panel button, DC - from both sources