# LED Count Up/Down Timers

Low Cost & Industrial Grade Cabinets

Kamal & Co

**42, Mambalam High Road,
T Nagar, Chennai,600017**
sales@factorydisplay.com

Description

The LED Digital Timers offer precise counting capabilities, accurately tracking time up to 99 hours, 59 minutes, and 59 seconds. With switch control or a remote control, users can effortlessly run, hold, or reset the timer in both count-up and count-down modes. Ideal for enhancing accuracy and efficiency across various facilities, these timers are essential for time-sensitive operations. Whether counting up or down, the LED Timers efficiently capture and store event data, facilitating seamless report generation for comprehensive time management.
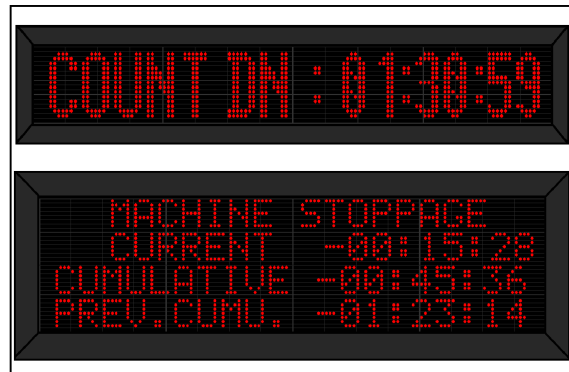
Product Features

- External terminal block for customer-supplied potential-free contacts.
- Terminal #1 for Start, set by a remote in countdown mode.
- Terminal #2 for Pause, utilizes momentary contacts.
- Terminal #3 for Resume, employing momentary contacts.
- Terminal #4 for Reset to "0," activated by momentary contacts.
- Count Up or Count Down selection initiated by remote control.
- Latch contacts required for counting, while momentary contacts control Pause and Reset functions.
- The last count is stored in memory for reference and continuity.

Notes and Options.

● Display Characteristics: All units feature a single-colour display with the default supply in vibrant RED, offering excellent brightness suitable for both indoor and outdoor viewing.

● Colour Customization: Alternative colours are available upon request, incurring an extra cost.

● Outdoor Units: For outdoor applications, the cost increases by 18% over the base price to account for additional specifications.

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● Customization Options: Titles and fixed designs can be added to meet specific requirements.

● Power Supply: All units operate on a standard 230V AC mains power source, with the option for 110V available upon separate quotation.

● Mounting Flexibility: Two mounting options are provided - top eye bolts for ceiling suspension and side clamps for secure bolting to supports.
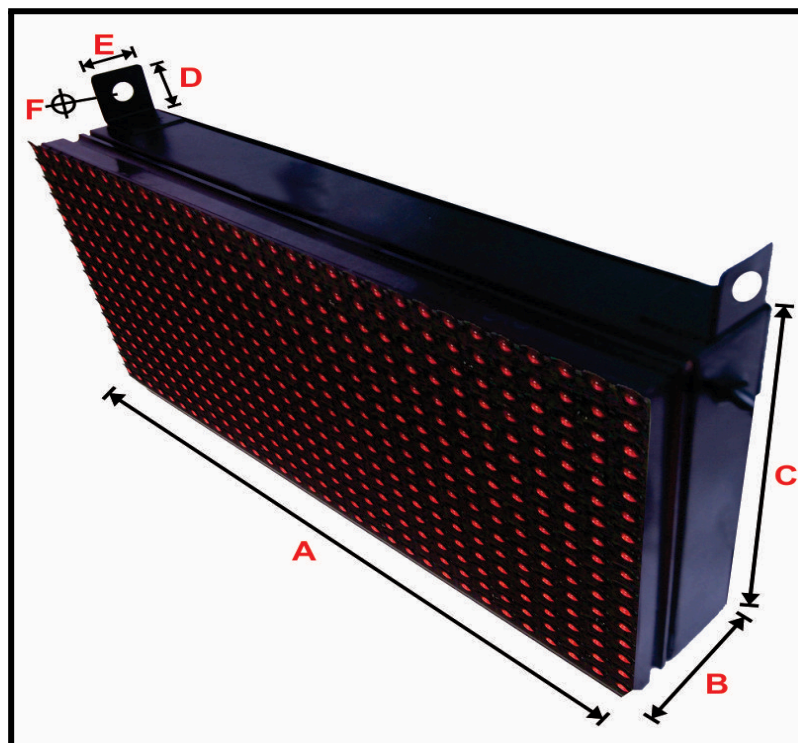
Low Cost Cabinet Sizes and Models						
Model	**TYPE**	Digit Height (mm)	Height (mm) C	Width (mm) A	Depth (mm) B	Max Power (W)
ECON-CUCD- CLK-HM-11	**HH:MM OR MM:SS**	140	160	320	50	35
ECON-CUCD-CLK-HMS-12	**HH:MM:SS**	140	160	640	50	95

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Technical Specifications	
VOLTAGE	230 VAC 1 PHASE MAIN POWER
OPERATING TEMP	5 TO 55'C
STORAGE TEMP	0 TO 65'C
RELATIVE HUMIDITY	UPTO 95% RH NON CONDENSING
DISPLAY	FULL MATRIX
LED COLOUR	RED
MEMORY	EEPROM DATA RETENTION
ACCESSORIES	POWER CABLE 1 METER, IR Remote

Electrical Connections
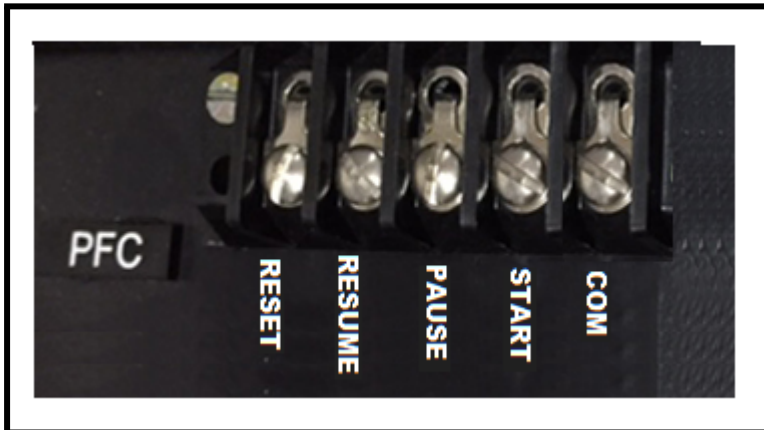
- Mount the display panel on a wall using the provided brackets on the backside for a straightforward installation.
- Power up the unit after completing the installation process.
- Upon activation, the LED display will initialize to the default value of "00:00".
- Utilize the remote control for precise operations and counter mode configurations.
- Employ the four designated terminals for initiating Start, Pause, Resume, and Reset functions, utilizing both latch and momentary contacts, known as Potential Free Contacts (PFC).
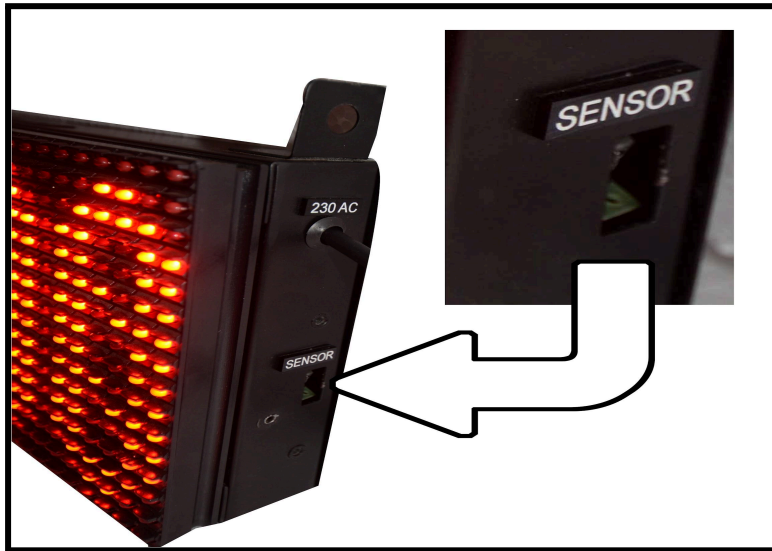
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These technical steps ensure an efficient setup and operation of the LED display, enabling control and customization through the provided remote and designated terminals.

Remote sensor location

Remote Operations

- The Timers are versatile, configurable as both Count Up and Count Down Timers.
- Access the Mode Config Menu by pressing the UP or DOWN Button on the remote control.
- In the 16x32 Model, choose between two Time Format Modes:
    HH:MM
    MM:SS
- Further select from various Timer Modes:
    Count Down (Halts when reaching 00:00)
    Count Down Continue (Persists counting up after 00:00)
    Count Up Target Stop (Halts when reaching a Target Time)
    Count Up Target (Continues counting up after reaching the Target Time)

These technical configurations offer flexibility in time format and diverse timer modes to suit specific needs, all conveniently accessible through the remote control's UP or DOWN Button.

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Setup and Usage	Count Down Timer
	➔ Setting Timer Value: 　◆ Press "OK" to set a countdown timer value. 　◆ Use the Numeric keys (0-9) on the remote to enter MM SS (Minutes Seconds). ➔ Starting the Timer: 　◆ Initiate the timer by pulsing Terminal #1 or pressing the Power button. ➔ Pausing the Timer: 　◆ Pause the running timer by pulsing Terminal #2 or pressing the Sleep Key. ➔ Resuming the Timer: 　◆ Resume the paused timer by pulsing Terminal #3 or pressing the Menu Key. ➔ Aborting and Resetting the Timer: 　◆ Abort the timer and reset it by pulsing Terminal #4 or pressing the Mute Key. ➔ Timer States: 　◆ IDLE: Timer starts in this state, displaying the entered time value. 　◆ Running: Timer counts down in this state. 　◆ Paused: Displays the time when the countdown was paused. 　◆ Stopped: Occurs when the timer reaches 00:00; 00:00 blinks until the timer is reset. ➔ Resetting the Timer: 　◆ When the countdown timer reaches 00:00 and starts flashing, reset it by pulsing Terminal #4 or pressing the OK key. This action restores the timer to its initial countdown time value.

| Setup and Usage	Count UP Timer
	➔ Setting Timer Mode to Count Up: ◆ When the Timer is IDLE (not running and not blinking), press the Up Key to set the timer mode to Count Up. ◆ Confirm the selection by pressing OK. ➔ Starting the Timer: ◆ Initiate the Count Up timer by pulsing Terminal #1 or pressing the Power button. ➔ Pausing the Timer: ◆ Pause the running Count Up timer by pulsing Terminal #2 or pressing the Sleep Key. ➔ Resuming the Timer: ◆ Resume the paused Count Up timer by pulsing Terminal #3 or pressing the Menu Key. ➔ Aborting and Resetting the Timer: ◆ Abort the Count Up timer and reset it by pulsing Terminal #4 or pressing the Mute Key. ➔ Timer States for Count Up Timer: ◆ IDLE: Timer starts in this state, displaying the entered time value. ◆ Running: Timer counts up in this state. ◆ Paused: Displays the time when the Count Up timer was paused. ◆ Stopped: Occurs when the Count Up timer reaches the entered time; entered time blinks until the timer is reset. Pressing the Down Key sets the timer to count down mode. Note: There are two sets of modes in remotes, Set1 and Set2. Ensure you are in Set1 by pressing the Set1 button for the remote to work correctly.

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Industrial Grade Cabinet models and Dimensions
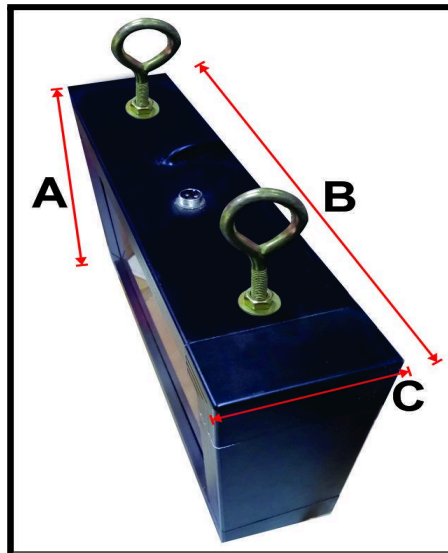
All Units in mm

Model No	A Height (mm)	B Width (mm)	C Depth (mm)	Max Power (W)
IC-CUCD-CLK-HM-11	250	410	93	35
IC-CUCD-CLK-HM-23	410	1050	93	185
IC-CUCD-CLK-HMS-12	250	730	93	65
IC-CUCD-CLK-HMS-24	410	1370	93	245

Heavy Duty Cabinet

- ❏ The Heavy Duty Cabinets make the LED board more durable and robust.
- ❏ The cabinets are made from extruded aluminium profiles and moulded corners for better appearance.
- ❏ The front filter used is Perspex / LEXAN ® sheets for UV and robust.
- ❏ The hanging hooks are also heavy and suited for mounting from your

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support structure.

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Important Notice