

C.M. TECHNOLOGY

Designed and Manufactured in Australia

www.cmtechnology.com.au

PRODUCT SHORTFORM

Rev. A1

Tel: +61 (2) 9764 5655

Emergency Exit Sign (Type 2)



ADR 44.9.5.2

1.0: Introduction:

The ADR requires that such signs be self-illuminating when the vehicle is in motion, and that the sign should remain illuminated for more than 15 minutes:

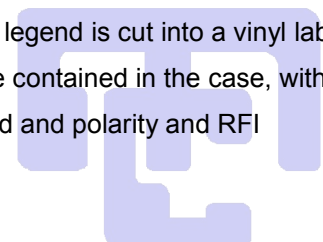
- After the vehicle stops.
- In the event of the failure of the main vehicle battery.

The C.M. Technology EMERGENCY EXIT2 sign is a small (130mm by 40mm by 25mm) sign that satisfies these requirements of the ADR. It uses the latest super bright Light Emitting Diodes (LED's) to backlight a red sign of the required size. The time duration is set by the charge stored in the internal super capacitors.

2.0: Technical Specification:

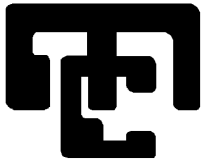
2.1: Mechanical Assembly:

The case of the sign is a small plastic box that supports an acrylic diffuser. The legend is cut into a vinyl label attached to the diffuser. All screws are hidden from view. All the electronics are contained in the case, with two connecting wires coming out of the back face. These wires are colour coded and polarity and RFI protected.



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2.2: Mounting:

An access hole (12 mm) is required for the fly leads. The unit is held in place by 2 pks insulated from the main PCB.

2.3: Electrical Connection:

Two wires are needed. All Exit signs can be connected together. The two connections are

- Vehicle Battery Plus (12 or 24 volts)
- Vehicle Battery Negative

This connection ensures that the super capacitor in the sign is always fully charged.

2.4: Operation:

The operation of the sign is as follows:

- Ignition On: capacitor charge up ~5 minutes
- Ignition goes Off: Sign on for >15 minutes after.
- Battery connection Broken: Sign on for >15 minutes

It is quite safe to disconnect the vehicle battery for extended periods. The super capacitor does not have any memory effect.

2.5: Protection:

The sign is fully protected against reverse connection, and the transients found in automotive applications.

2.6: Temperature:

The Exit sign is rated from -10°C to +60°C

