

# CM12 Low Voltage Control Chain Hoist Controller



The CM12 chain hoist controller, one of our range of control system 'building blocks', is designed to withstand the rigours of touring and staging life. The CM12 is housed in a steel rack mount case, and with features such as selectable input voltage is ideally suited to use throughout the world.

- ◆ **Twelve channels of low voltage control and 3-phase power distro**
- ◆ **Selectable Normal multichannel mode or Pickle mode**
- ◆ **Industry standard Ceep (Socapex-style) multipin output connectors. Optional trussmount C-Form Splitter Boxes**
- ◆ **Input voltage selection switch - the CM12 can be used worldwide**
- ◆ **Input voltage phase indicators and reversal switch**
- ◆ **Optional HC12 hand controller for remote pendant control**
- ◆ **Optional remote GO button, link-able across multiple units**
- ◆ **Optional remote Emergency Stop button, link-able across multiple units**
- ◆ **Fully compliant with CE directives**

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# CM12 Operation and Technical Details

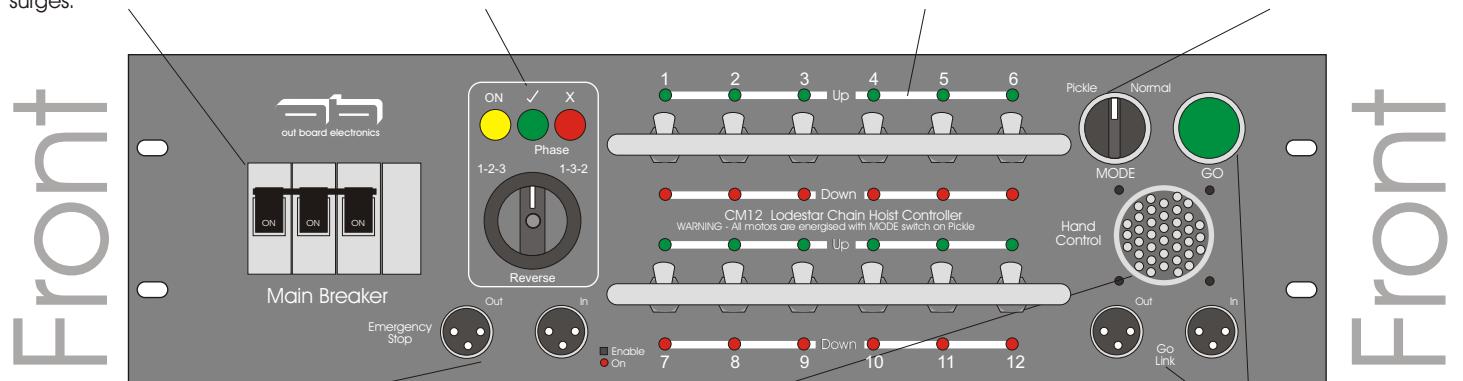
The CM12 is designed to operate twelve low voltage controlled chain hoist motors in staging and rigging applications. It features heavy duty connectors and controls and is housed in an incredibly compact 3U high 19" rack mount chassis making it ideal for touring and fixed applications. The CM6 fully conforms to European EMC and LVD requirements.

An input MCB provides overall system on / off control and protection against output overload faults. The MCB is rated at 40A with D characteristic providing 10 - 20 times normal rating for start up surges.

Phase direction and power on indicators show incoming mains status. The phase reversal switch should be set so green neon is lit to ensure that the motors run in the correct direction and that the limit switch function is maintained.

Local control switches allow the CM12 to be programmed from the front panel. Only a local Go, Remote Go or Go Link will activate hoists to this program. An alternate program can be set on the optional HC12 hand controller and activated from the hand controller Go. Program switches are protected by a crash bar and direction is indicated by green and red LEDs.

With the Mode switch in Pickle position all motors are energized enabling operation from a pickle, while in Normal position the controller will only power the motors when Up / Down is selected and Go

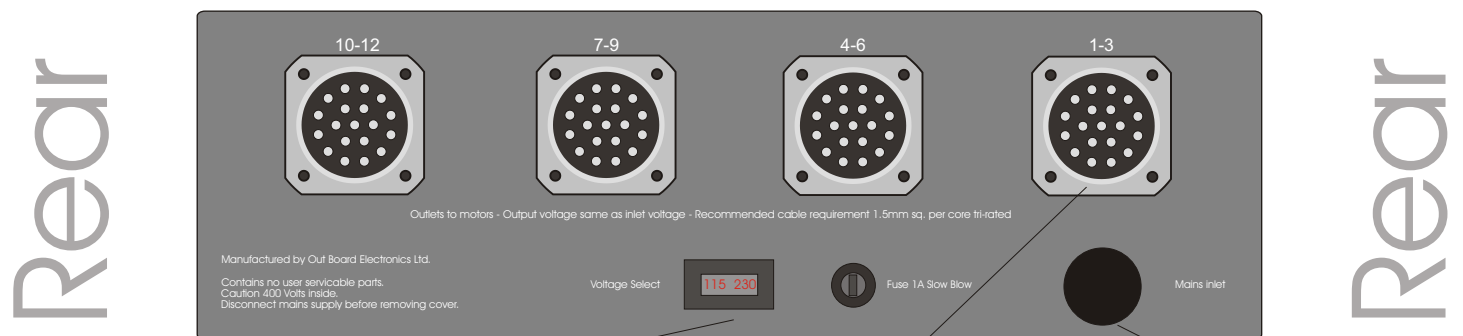


The Emergency Stop feature allows the CM12 to be shut off from a remote push-to-break emergency stop button connected between pins 2 & 3 on the female XLR. A recessed push button switch can be activated to disable the feature. An LED indicates green when the Emergency Stop feature is enabled, and red when it is disabled. Ask us about the optional Out Board remote E-Stop button.

Complete independent remote operation of the CM6 is possible using an optional hand control facility. The optional HC12 Handcontrol unit allows control of motor direction programming and Go. The handheld HC12 is housed in a rigid steel enclosure and is connected to the CM12 via a multicore cable.

Once programmed on the local switches, motors may be activated using the front panel Go switch or by using the Go Link facility. The Go Link feature allows the CM12 to be controlled from a roving Go button as well as allowing any number of CM12's to be controlled from a single Go command. To initiate a remote Go, pins 2 & 3 are shorted together on the 'Go Link In'. This causes an internal relay to link pins 2 & 3 on the 'Go Link Out' for daisy chaining to the next unit. To connect several units together, standard 3 pin XLR cables are used to link the 'Go Link Out' of the first CM12 to the 'Go Link In' of the next, and so on. The local Go on the first unit will now control the others, as will a Remote Go switch connected to the Go Link In on the first unit. Ask us about the optional Out Board handheld Remote GO switch.

## out board



Selectable mains voltage between 115V and 230V enables operation of the controller anywhere in the world. Note, motors must be re-tapped for operation at different voltages.

Connection to motors are arranged in groups of 3 on 19 way Socapex or optional Litton connectors carrying 3 phase power and earth as well as up, down and common control lines.

Mains power inlet on 1.5M flying lead terminated with a 5 pole 63A ceetype cable plug carrying 3 phase N + E

Dimensions: H: 3U (13.34cm) x W: 19" (48.26cm) x D: 31cm. Allow 10cm for rear chassis connectors and inlet cable bend radius. Shipping Weight: 20kg