



CLMD16

16 Channel DC Load Controller Module



Quick Start Guide

P/N: M003137

Rev. 1.6 (3/2021)

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60 Johnson Ave.
Plainville, CT
06062 USA

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Thank you for purchasing MPower CLMD16

The CLMD16 features 125A total current switching capacity using 16 PWM capable Electronic Circuit Breakers (ECBs) housed inside an IP67, Ignition Protected casing. Configure the CLMD16 using Maretron N2KAnalyzer® installed on a PC and an IPG100 or USB100 connected to the NMEA 2000® Network.

CLMD16 Features at a Glance:

- 2- NMEA 2000® Interfaces
- 12-12A ECBs
- 4- 25A ECBs
- 8- Analog (VDC) / Digital Inputs (DC (-), DC (+) or “Float” sensing inputs)
- 2- Resistive inputs (0 - 250Ω) & (0 - 1000Ω)
- 1- Current loop input (4 - 20mA)
- 3- Groups of 2 ECB load outputs rated at 12A can be paralleled to switch a maximum current of 21.6A
- 1- Pair of 2 ECB load outputs can be paralleled to switch a maximum current of 45A
- 4 -12A ECBs are capable of half bridge operation
By pairing half bridge ECBs the CLMD16 allows for 2 reversing polarity outputs suitable for use with loads such as hatch rams or trim tabs.
- Capacitive Touch Manual Override keypad to toggle the ECB's On / Off
- The CLMD16 unit is controlled, and can control devices via NMEA 2000® network technology.

To learn more about the MPower CLMD16's features please refer to the User's Manual located on the Blue USB Disc. See launch instruction below to access USB Disc Menu.

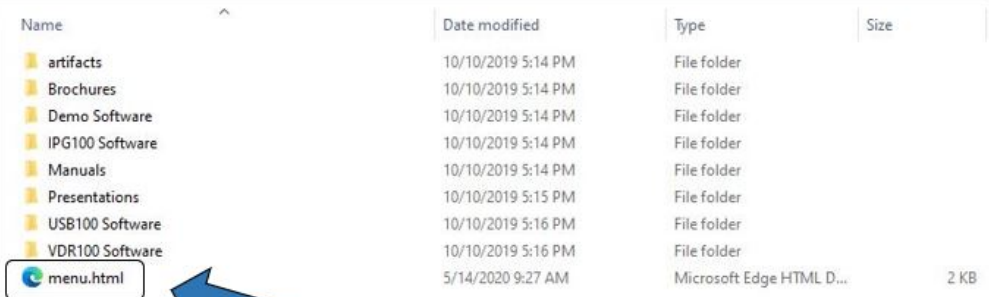
Step 1:
Plug Maretron Blue USB into your computer.



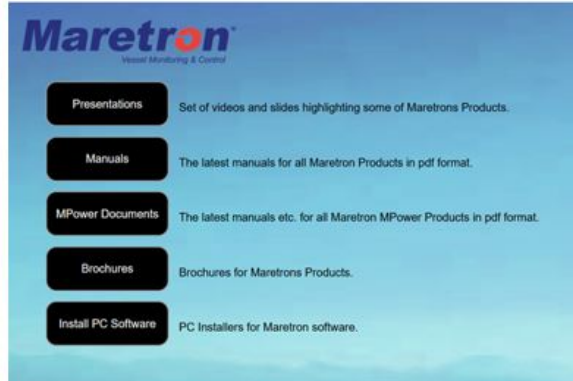
Step 2:
From your file browser find the USB DISK and highlight to view contents.



Step 3:
Double-Click: menu.html to launch USB Menu

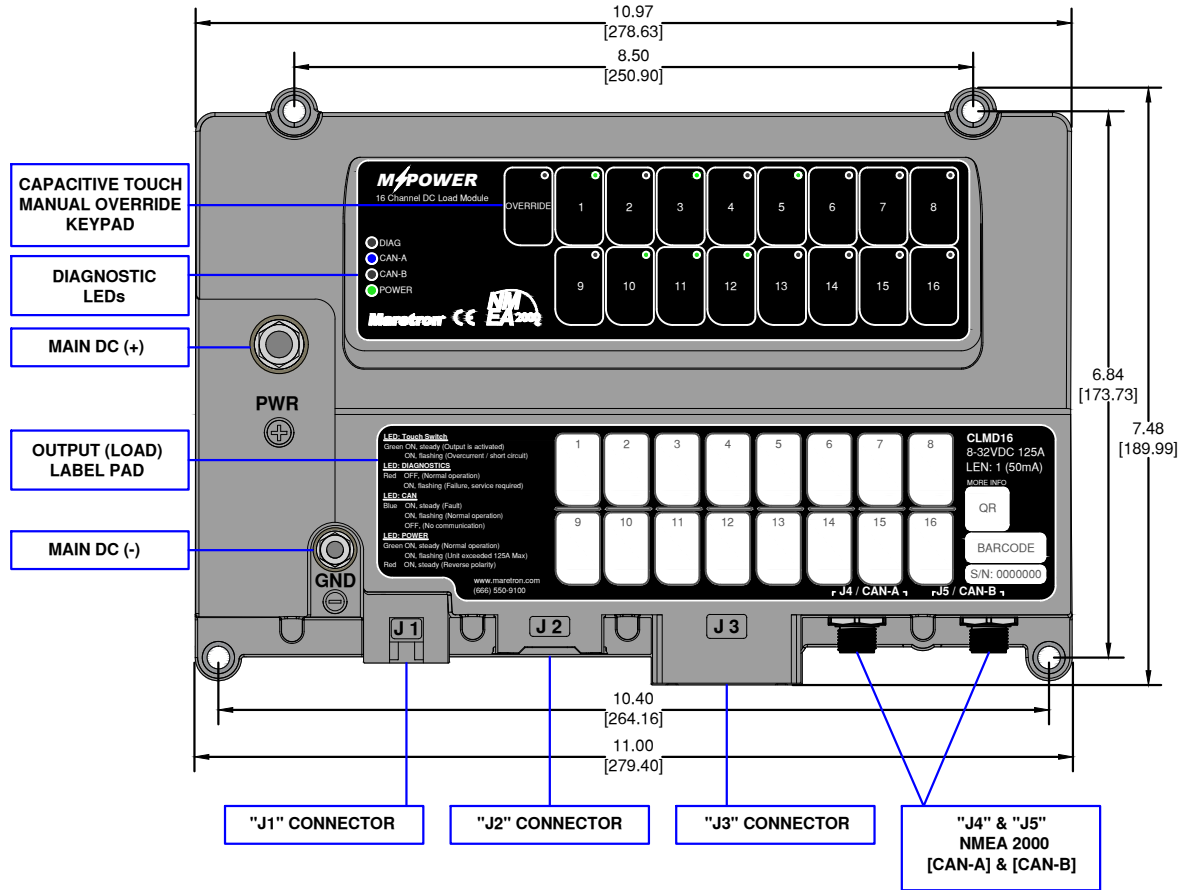


Maretron Blue USB Menu:



Name	Date modified	Type	Size
artifacts	10/10/2019 5:14 PM	File folder	
Brochures	10/10/2019 5:14 PM	File folder	
Demo Software	10/10/2019 5:14 PM	File folder	
IPG100 Software	10/10/2019 5:14 PM	File folder	
Manuals	10/10/2019 5:14 PM	File folder	
Presentations	10/10/2019 5:15 PM	File folder	
USB100 Software	10/10/2019 5:16 PM	File folder	
VDR100 Software	10/10/2019 5:16 PM	File folder	
menu.html	5/14/2020 9:27 AM	Microsoft Edge HTML D...	2 KB

CLMD16 Hardware Description:



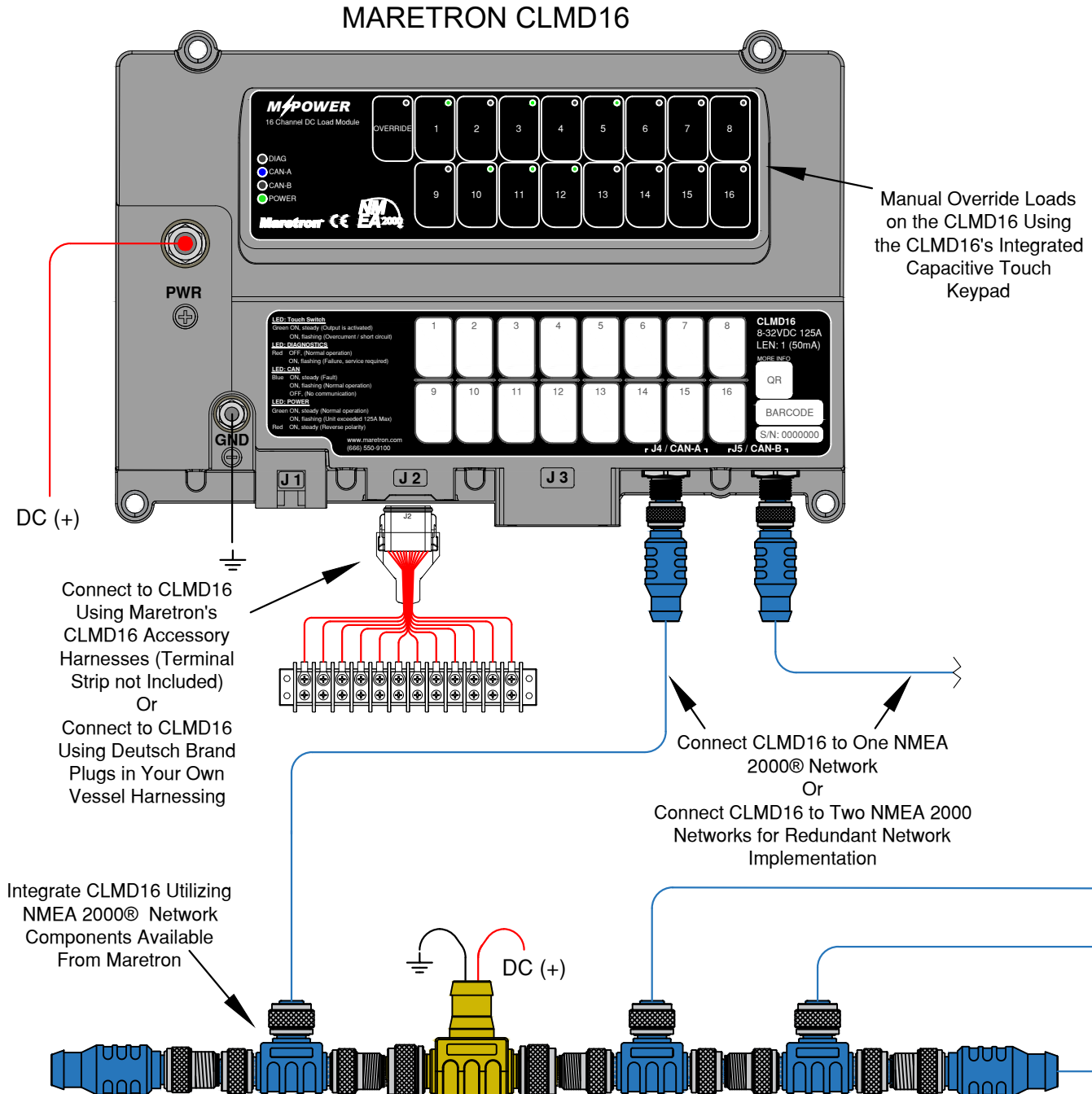
UNIT: INCH [MM]

CLMD16 Application:

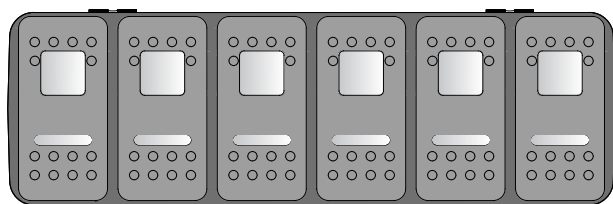
Apply the CLMD16 unit with any Maretron device running N2K view®, Maretron's CKM12 (12 Button Keypad) or VMM6 (Contura® Digital Switch Module, 6 Rocker) and third party MFDs supporting NMEA 2000® standard switching PGNs. The CLMD16 comes pre-configured with an Out of Box Configuration that allows all 16 ECB outputs to be switched by network devices supporting NMEA2000® standard switching PGNs. The CLMD16's Out of Box Configuration also allows for Maretron's CKM12 (12 Button Keypad) and VMM6 (Contura® Digital Switch Module, 6 Rocker) to control CLMD16 without the need for any user configuration adjustments. Please see the Out of Box Configuration details in this Quick Start Guide for information on the CLMD16's default configuration and how this configuration will behave when a CLMD16 is combined on the same network as Maretron CKM12 or Maretron VMM6 also containing their own default Out of box Configuration.

Note: Depending on desired switch control, default configuration may not work for your application and custom configuration will be needed using Maretron N2KAnalyzer®.

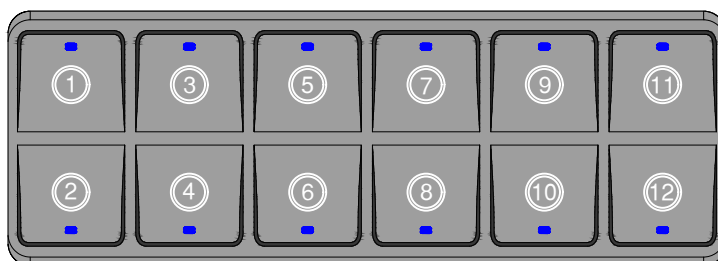
Installation Principle:



MARETRON VMM6



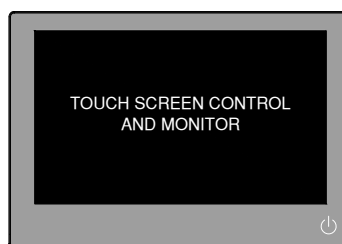
MARETRON CKM12



MARETRON TSM810C



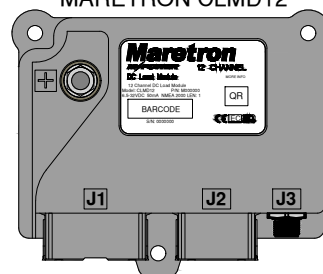
THIRD PARTY MFD



Choose From a Variety
of Control Devices for
the CLMD16

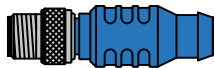
Easily Expand Your
MPower System With
another CLMD16 or
Other Maretron MPower
Devices

MARETRON CLMD12

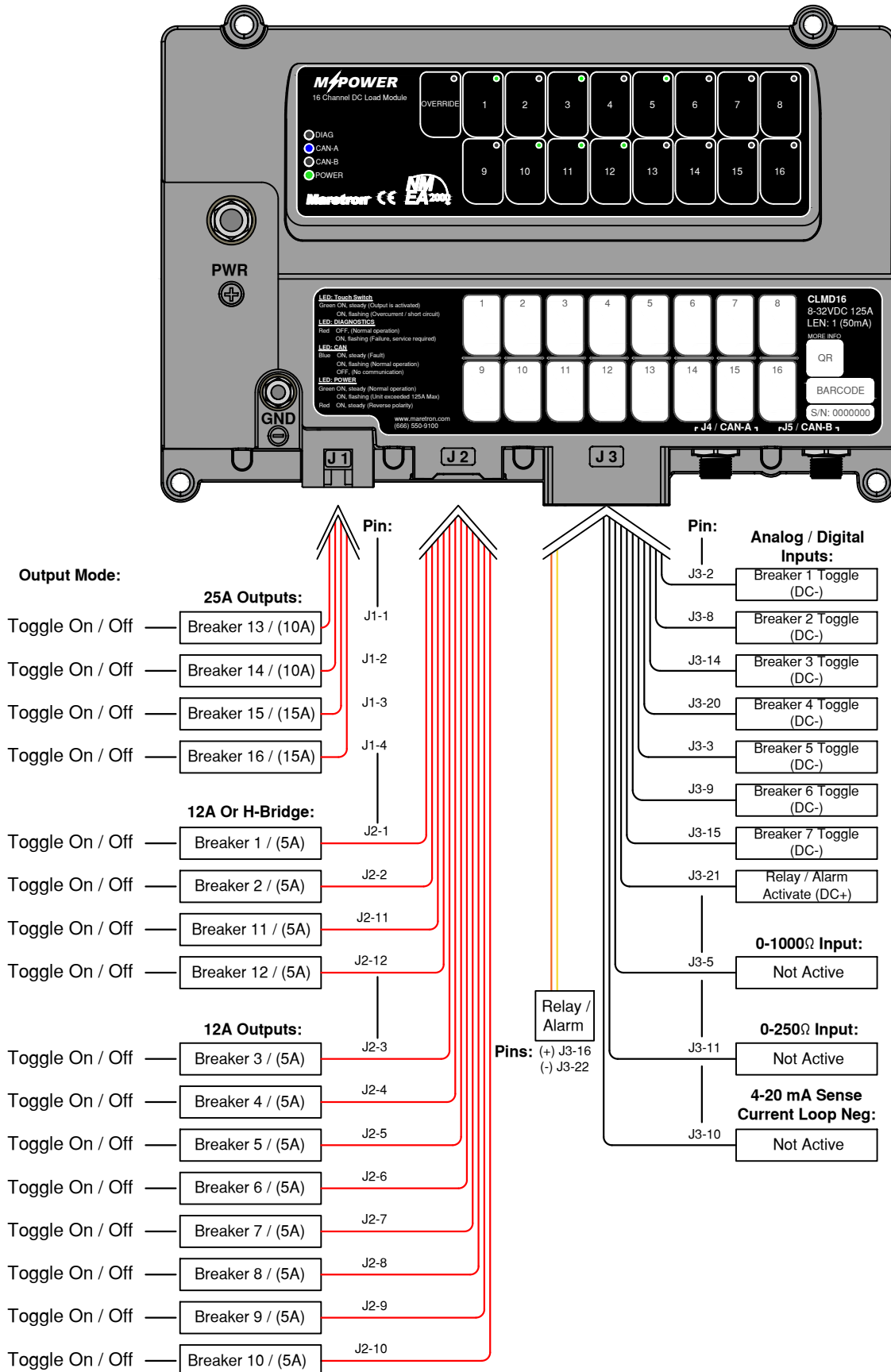


Other
NMEA
2000®
Devices:

- Stereo
- VHF
- Depth

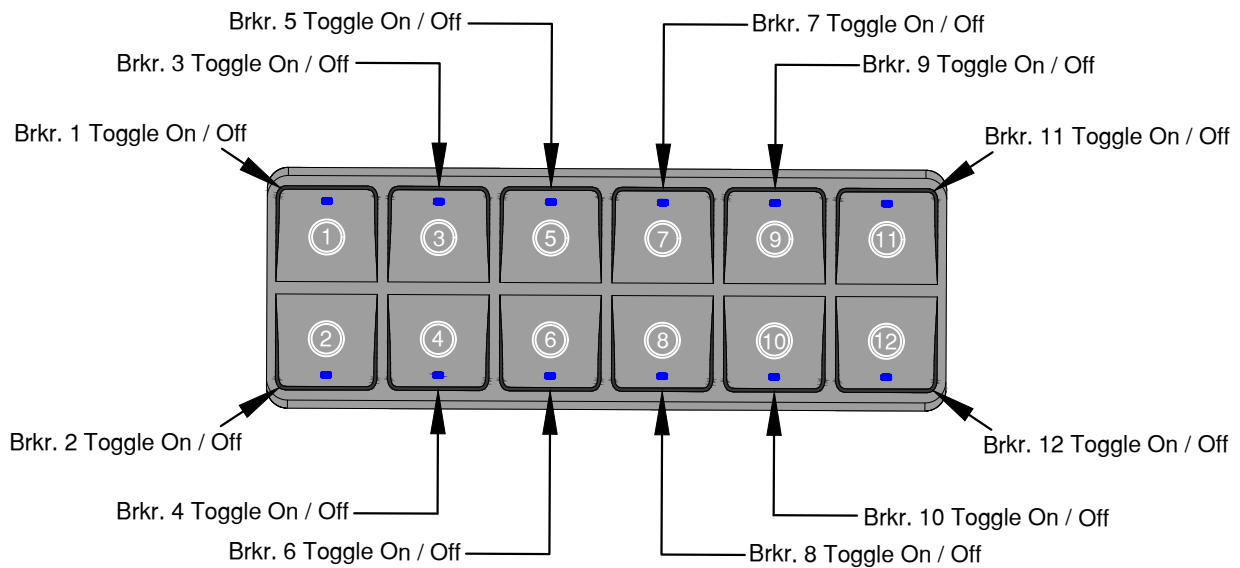


CLMD16 Out of Box Configuration Module Details:

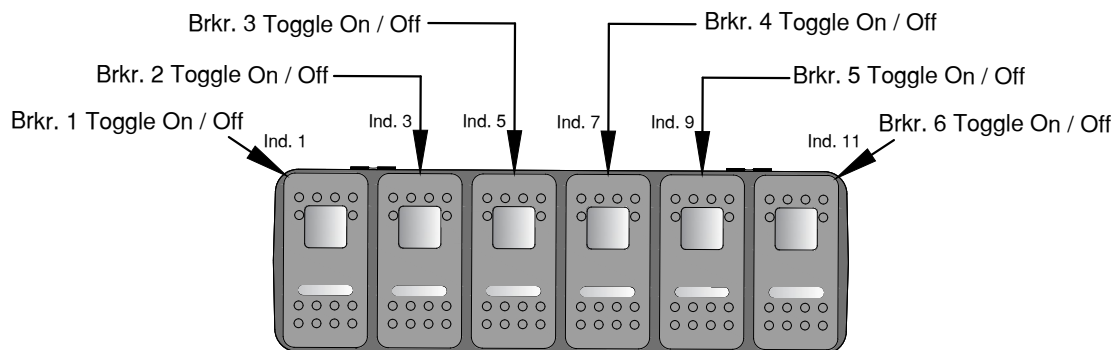


CLMD16 Out of Box Configuration Switch Bank Details:

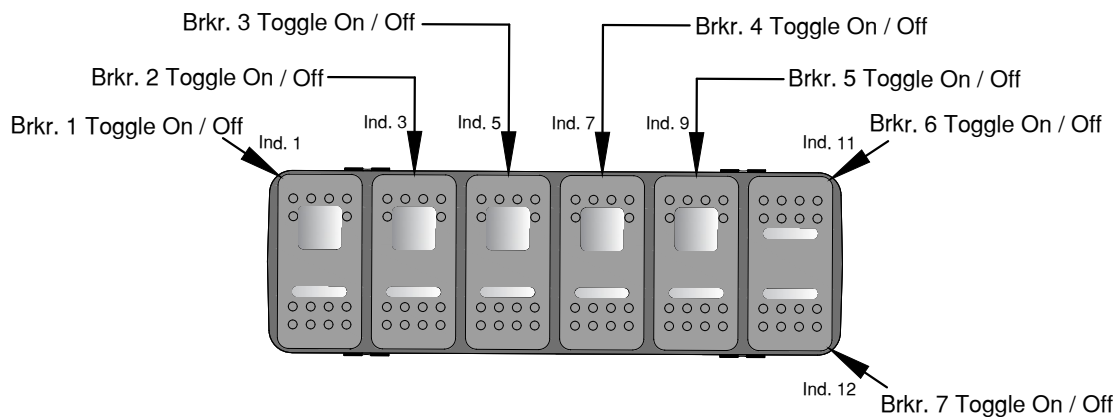
MARETRON CKM12



MARETRON VMM6 (6 Switch)



MARETRON VMM6 (7 Switch)





CLMD16

Appendix 1:

3/9/2021: **LED:POWER** Green ON, flashing (Unit Exceeded 125A Max)-
This feature is not available

**For Additional Information About Your CLMD16
Scan this QR Code:**



Technical Support:

If you require technical support for Maretron products,
you can reach us in any of the following ways:

Telephone: 1-866-550-9100

Fax: 1-602-861-1777

E-mail: marine.support@carlingtech.com

World Wide Web: <https://www.maretron.com>

Mail: Carling Technologies, Inc.

Attn: Maretron Technical Support

120 Intracoastal Pointe Dr.

Jupiter, FL 33477 USA