



CKM12

CKM Series

12-Button Customizable Keypad



Quick Start Guide

P/N: M003139

Rev. 1.2 (3/2021)

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Thank you for purchasing MPower CKM12

The CKM12 features 12 keys over-molded with a rubberized coating. The CKM12 requires only a connection to an NMEA 2000® network to begin. Configure the CKM12 using Maretron N2KAnalyzer® installed on a PC and an IPG100 or USB100 connected to the NMEA 2000® Network. CKM12 transmits and receives NMEA 2000® PGN 127501. Each transmission of PGN 127501 reports the state of all key positions every 15 seconds and each time a key is pressed. Each key has an LED that can be configured to show the state of an MPower load controller ECB (Electronic Circuit Breaker) reported in a received 127501 PGN. Assigning CKM12 control of an ECB or multiple ECBs is configured within the MPower load controller(s) configuration while assigning CKM12's LEDs operation is configured within the CKM12 unit's configuration.

CKM12 Features at a Glance:

- Key Detent Provides Tactile feel when pressing
- Configurable Operation and Appearance Aspect
- All Key Positions have Blue LED's
- Horizontal or Vertical Mounting Options
- Screwless, Snap-In Mounting
- IP69 Rated (front) IP68 (rear) with Plug for Unused Connector
- LED Feedback of Controlled Circuit State
- NMEA 2000 LEN: 2 (Max Current 100mA)
- Operating Voltage: 8 - 32 VDC
- Endurance Tested to Reach Minimum of 1,000,000 Operations

To learn more about the MPower CKM12's features please refer to the User's Manual located on the Blue USB Disc. See launch instruction below to access USB Disc Menu.

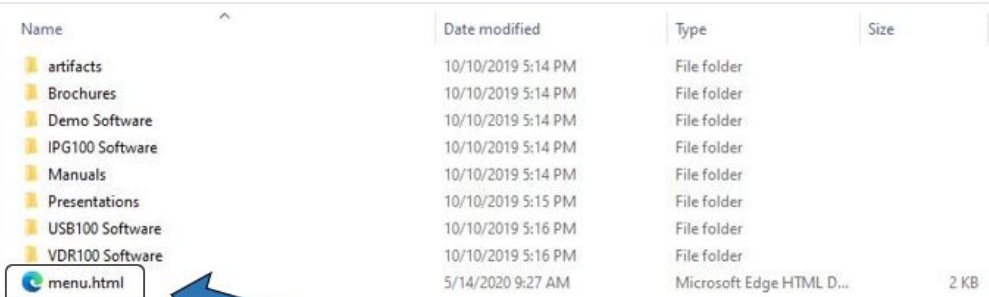
Step 1:
Plug Maretron Blue USB into your computer.



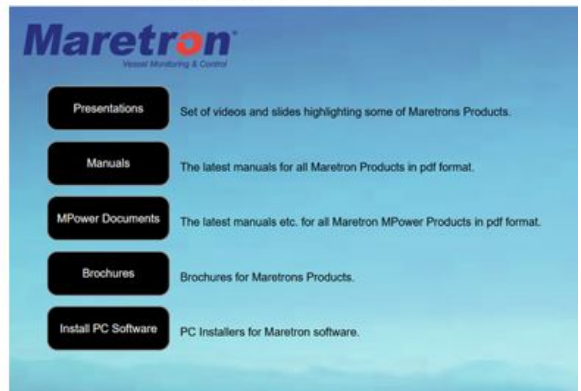
Step 2:
From your file browser find the USB DISK and highlight to view contents.



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



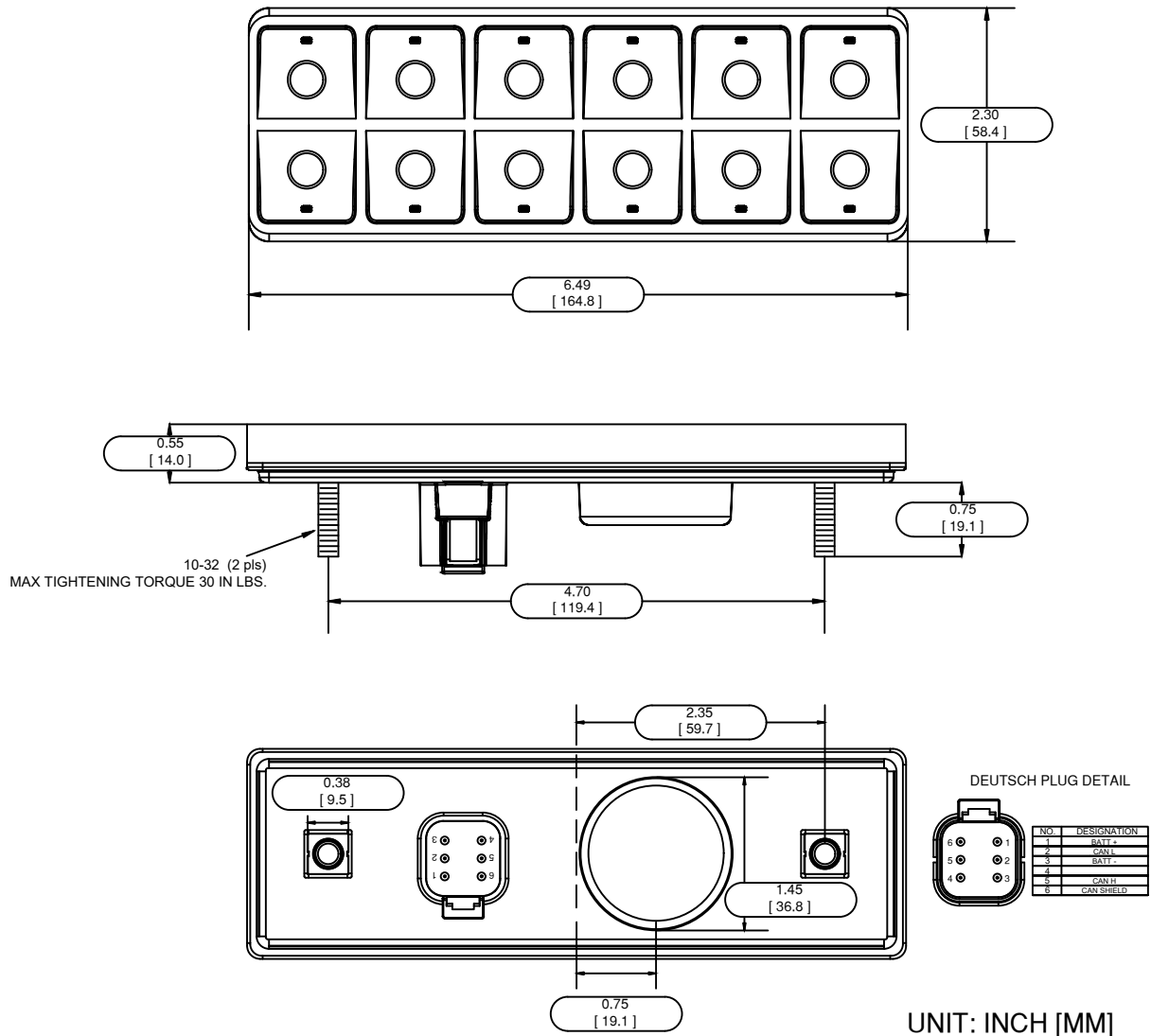
Maretron Blue USB Menu:



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

CKM12 Hardware Dimensions:

Not to Scale, for Reference Only



CKM12 Application:

Apply the CKM12 unit to control any Maretron Load Controller device such as Maretron's CLMD16 or CLMD12 by connecting CKM12 to the same NMEA 2000® Network. The CKM12's Out of Box Configuration allows for Toggle Operation of the first 12 Electronic Circuit Breakers on Maretron's CLMD16 and CLMD12 Load Controller Modules. This will only occur if the CLMD16 or CLMD12 is on the same NMEA 2000® Network as CKM12 and also has a default Out of Box Configuration. Please see the Out of Box Configuration details in this Quick Start Guide for information on how the CKM12's default configuration will behave when a CLMD16 or CLMD12 is on the same network with 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®. Applying a CLMD16 and a CLMD12 containing default Out of Box Configurations or having two CKM12 units on the same NMEA2000® network forces the need for custom configuration.

CKM12 Ordering Options:

A3802-1



CKM to NMEA 2000® Adapter Cable - .2m (A3703)



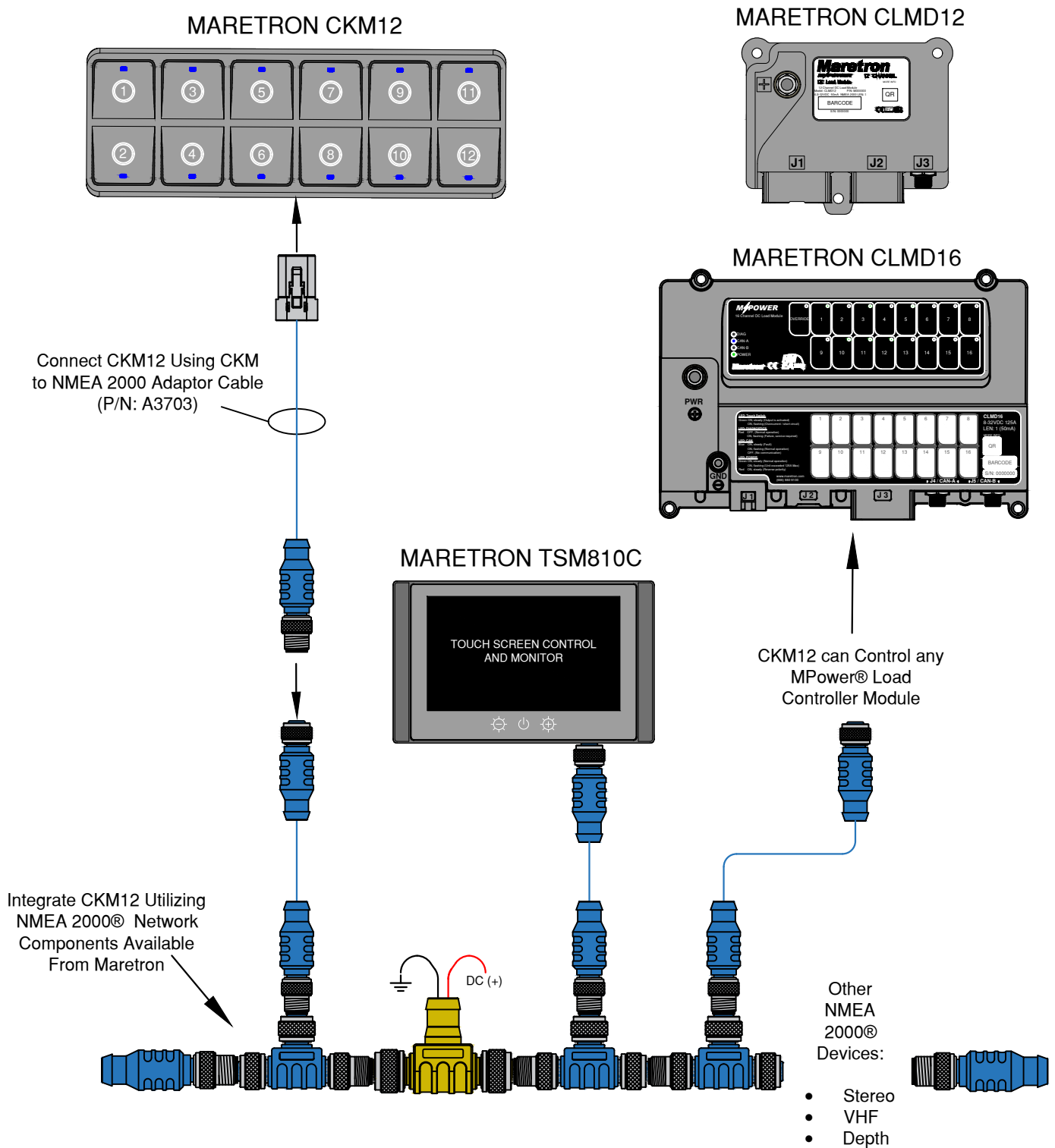
A3802-2



CKM to NMEA 2000® Adapter Cable - .2m (A3703)

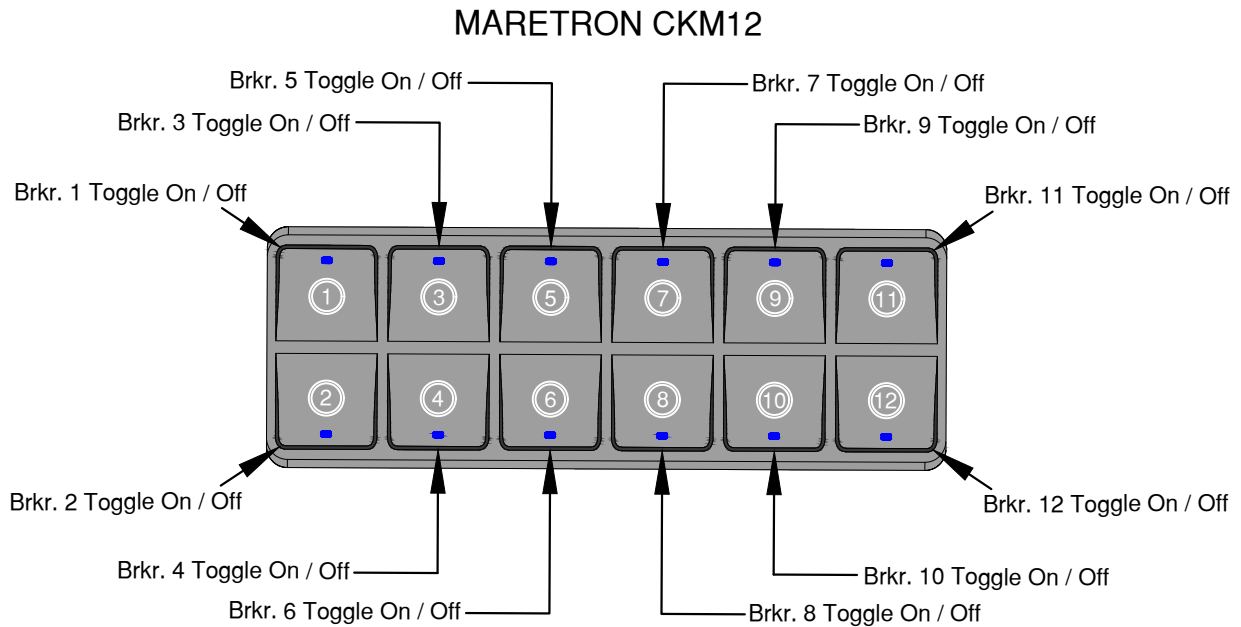


Installation Principle:

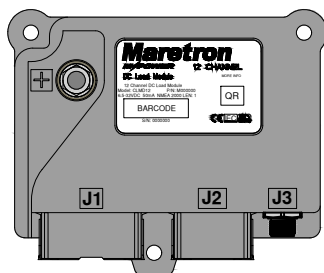


CKM12 Out of Box Configuration Module Details:

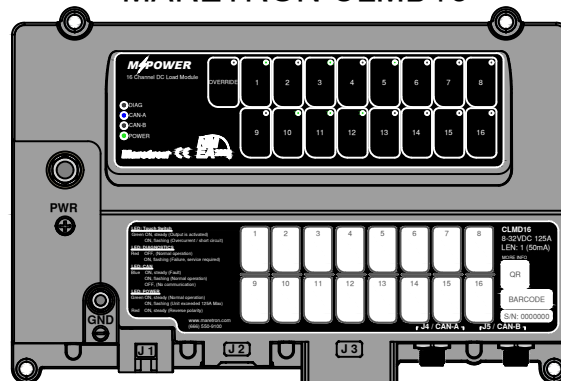
The CKM12's default configuration will Toggle the first 12 Electronic Circuit Breakers of either CLMD16 or CLMD12 when connected to the same NMEA 2000® Network.



MARETRON CLMD12

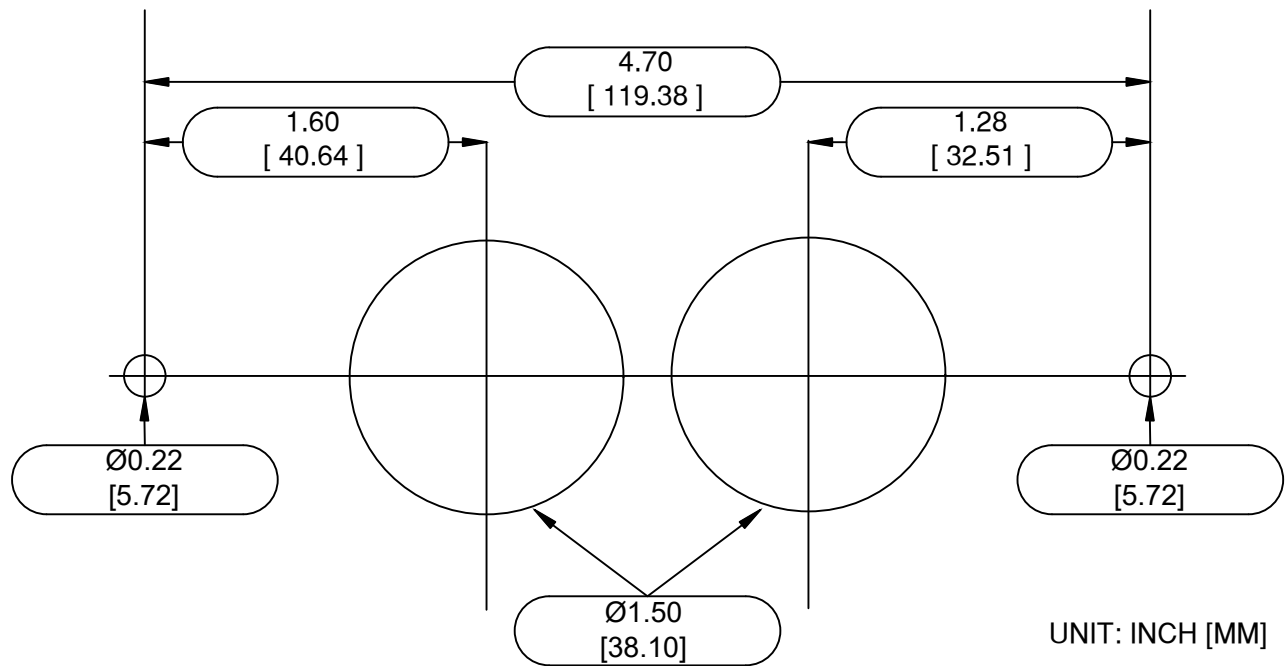


MARETRON CLMD16



CKM12 Panel Cut Out Requirement:

Not to Scale, for Reference Only



PANEL THICKNESS MIN: 0.05 [1.27] MAX: 0.30 [7.62]



**For Additional Information About Your CKM12
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.
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Jupiter, FL 33477 USA