

PCMM2G

Programmable Controller - Safety Notes



This document provides the safety information for the PCMM2G Motion Controller.

Additional information is available at the **KAS Online Help** website.
This site:

- Describes how to use the controller in common applications.
- Provides tips for setup and maximizing system performance.
- Includes the **Parameter and Command Reference Guide** which provides information for the parameters and commands used to program the motion system.

All documents are available from either the:

- KSN website: [Kollmorgen Support Network](#).
- Kollmorgen website: www.kollmorgen.com.

For complete information, see the user documents for the PCMM2G Motion Controller.
Download the multilingual PCMM2G Installation Manual and all Kollmorgen user documents from:

PCMM2G



[PCMM2G Programmable Controller](#)
Multilingual documentation for all revisions of this product are available at kollmorgen.com/pcmm2g.
A hard copy may be ordered at (833) 565-5667.

Record of Document Revisions

Revision	Published	Remarks
A	August 2026	First edition.

Safety Notes Edition: A, August 2026
Part Number: M000-0402



For safe and proper use, follow these instructions.
Keep for future use.

1 Installation, Setup, and Normal Operation

Installation and setup information are in the [PCMM2G Installation Manual](#).

NOTE

Contact Kollmorgen customer support for a printed copy of the installation manual.

Normal operation tested for environmental class 3K3 according to IEC 60721-3-3.

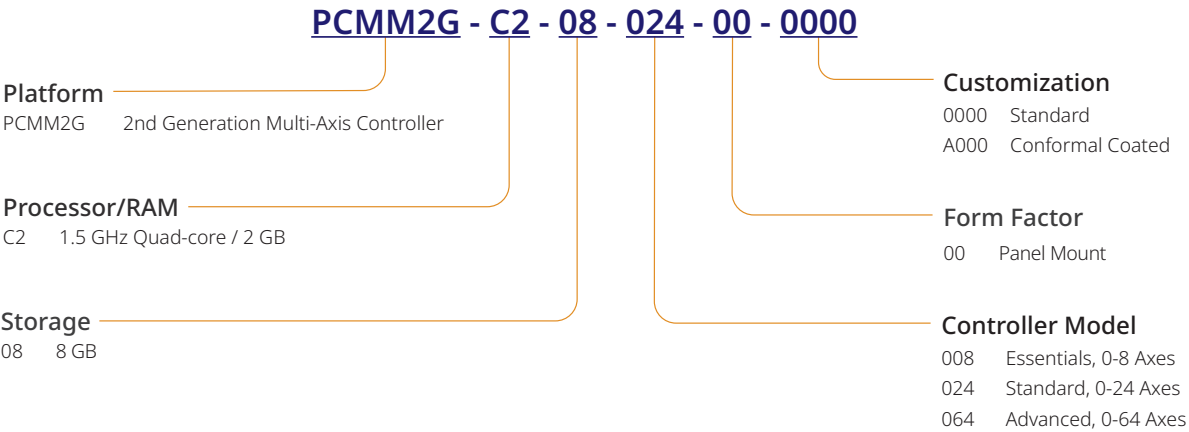
The manufacturer of the machine defines the necessary end user expertise based on the risk assessment for the machine and describes the requirements for normal operation based on the application.

2 Part Number Scheme

! IMPORTANT

- The part number scheme is for product identification only.
- Do not use it for the order process because not all combinations of features are possible.

PCMM2G Model Nomenclature



! IMPORTANT

- Controller model capabilities are configured during the manufacturing process.
- Upgrading a PCMM2G to a higher axis count model after shipment requires coordination with the manufacturing facility.
- Customers and distributors should contact their local Kollmorgen support representative for assistance with controller model upgrades or configuration changes.

3 Safety

3.1 Specialist Staff Required!



The devices are intended for industrial applications.

Machine builders must employ qualified personnel.

Qualified personnel are people who have been trained to transport, install, commission, and operate electrical drives.

- Basic tests / setup: Only by personnel with expertise in electrical engineering and drive technology.
- Electrical installation: Only by electrical engineering qualified personnel.
- Mechanical installation: Only by mechanically qualified personnel.
- Transport, storage, unpacking: Only by personnel with knowledge of handling electrostatically sensitive components.

The qualified personnel must know and observe ISO 12100 / IEC 60364 / IEC 60664 and national accident prevention regulations.

3.2 Verify the Hardware Revision!



Verify the Hardware Revision Number of the product (see product label).

- This number is the link between your product and the manual.
- It must match the Hardware Revision Number on the cover page of the manual.

3.3 Read the Documentation!



Read the available documentation before installation and commissioning.

- Improper handling of the device can cause harm to people or damage to property.
- The operator of systems using the PCMM2G must ensure that all personnel who work with the motion system read and understand the manual before using the system.

3.4 Pay Attention to the Technical Data!



- Adhere to the technical data and the specifications for connection conditions (rating plate and documentation).
- If permissible voltage values or current values are exceeded, the PCMM2G can be damaged.

3.5 Perform a Risk Assessment!



The manufacturer of the machine used with a PCMM2G must:

- Generate a risk assessment for their machine.
- Take appropriate measures to ensure that unforeseen movements cannot cause injury or damage to any person or property.
- Specialist staff may have additional requirements as a result of the risk assessment.

3.6 Observe Electrostatic Sensitive Components!



The PCMM2G contains electrostatically sensitive components that can be damaged by incorrect handling.

- Electrostatically discharge your body before touching the PCMM2G.
- Avoid contact with highly insulating materials (e.g., artificial fabrics, plastic film etc.)
- Place the PCMM2G on a conductive surface.

3.7 Never Modify the Products!



- Opening the controller, device, or housing voids the warranty.
- The PCMM2G cannot be modified without permission by the manufacturer.

3.8 Use as Directed

The PCMM2G is intended for controlling Kollmorgen drives in a motion system.

- PCMM2Gs are components that are built into electrical plants or machines and can only be operated as integral components of these plants or machines.
- The manufacturer of the machine used with a PCMM2G must generate a risk assessment for their machine.
- When the PCMM2Gs are built into machines or plant, the motion system must not be used until it has been established that the machine or plant fulfills the requirements of the regional directives.

3.8.1 Cabinet and Wiring

PCMM2G must only be operated and permanently connected in a closed control cabinet suitable for the ambient conditions.

- Ventilation or cooling may be necessary to keep the temperature in the cabinet below 55 °C.
- Use only copper conductors for wiring.
- The conductor cross-sections can be derived from the standard IEC 60204 (alternatively for AWG cross-sections: NEC Table 310-16, 75 °C column).

3.8.2 Power Supply

The PCMM2G is powered from a 24 Vdc PELV supply.

3.9 Prohibited Use

Uses other than that described in this document are not intended and can lead to personal injuries and equipment damage.

- The PCMM2G may not be used with a machine that does not comply with appropriate national directives or standards.
- The use of the PCMM2G in these environments is also prohibited:
 - Potentially explosive areas.
 - Environments with corrosive and/or electrically conductive acids, alkaline solutions, oils, vapors, dusts.

4 Product Life Cycle Handling

4.1 Decommissioning

NOTICE

Only professional staff who are qualified in electrical engineering are allowed to decommission parts of the system.

1. Switch off the main switch of the switchgear cabinet.
2. Secure the system against restarting.
3. Block the main switch.

4.2 Disassembly

NOTICE

Only professional staff who are qualified in electrical engineering are allowed to disassemble parts of the system.

1. Decommission the device.
See "Decommissioning" (→ p. 5).
2. Remove the connectors.
Disconnect the potential earth connection last.
3. Demount: Loosen the fastening screws.
Remove the device.

4.3 Disposal

NOTICE

Contact a certified electronic scrap disposal merchant to properly dispose of the controller or device.

In accordance with the WEEE-2012/19/EU guideline and similar:

- The manufacturer accepts returns of old controllers, devices, and accessories for professional disposal.
- The sender is responsible for the transport costs to return the controller, device, or accessory.
- Send the devices in the original packaging to the appropriate manufacturer address.

For disposal, send the device, in the original packaging, to the appropriate manufacturer's address.

Region	Disposal Address
North America	Kollmorgen Corporation 201 West Rock Road Radford, VA 24141, USA
Europe	Kollmorgen s.r.o. Attn.: Repair Department Evropská 864 664 42 Modřice, Brno Czech Republic
South America	Altra Industrial Motion do Brasil Equipamentos Industriais Ltda. Avenida João Paulo Ablas, 2970 Jardim da Glória, Cotia - SP CEP 06711-250, Brazil

Region	Disposal Address
China and SEA	Kollmorgen (Shanghai) Room 1201, Building A, Mangoo Hub, No.7 Longai Road, Xuhui District, Shanghai, China (Service available in English and Chinese)

4.4 Packaging

The PCMM2G packaging consists of recyclable cardboard with inserts and a label on the outside of the box.

- Packaging dimension (H x W x D): 107mm x 268mm x 220mm.
- Total weight: 1.2kg.

4.5 Maintenance and Cleaning

NOTICE

- Opening the controller, device, or housing voids the warranty.
 - The device does not require maintenance.
 - It should be inspected once a year by professional staff.
 - The inside of the unit can only be cleaned by the manufacturer.
- Do **not** immerse or spray the device.
- Do **not** allow any liquid to enter the device.

4.5.1 Cleaning Procedure



Highly Flammable! Risk of injury by explosion and fire.



- Observe the safety notes given on the cleaning liquid package.
- Wait at least 30 minutes after cleaning before putting the device back into operation.

1. Decommission the device.
See "Decommissioning" (→ p. 5).
2. **Casing:** Clean with Isopropanol or similar cleaning solution.
3. **Protective grill on fan:** Clean with a dry brush.

4.6 Storage

NOTICE

Use these specifications to store the PCMM2G:
The specifications are in accordance with IEC 61800-2.

- Store only in the manufacturer's original recyclable packaging.
- Store at or below a maximum stacking height of 8 cartons.
- Store only within the specified temperature ranges:
 - -25 °C to +55 °C, max. rate of change 20 K/hour, class 1K4.
- Store only within the specified humidity:
 - 5 to 95% relative humidity, no condensation, class 1K3.

4.7 System Repair

NOTICE

Only professional staff who are qualified in electrical engineering are allowed to exchange parts of the drive system.

CAUTION



Automatic Start!

- During replacement work, a combination of hazards and multiple episodes may occur.
- Work on the electrical installation may only be performed by trained and qualified personnel, in compliance with the regulations for safety at work, and only with use of prescribed personal safety equipment.

4.7.1 Exchange a Controller

NOTICE

- Only the manufacturer can repair the controller.
- Opening the controller, device, or housing voids the warranty.

1. Decommission the device.
See "Decommissioning" (→ p. 5).
2. Demount the device.
See "Disassembly" (→ p. 5).
3. Send the device to the manufacturer.
See "Disposal" (→ p. 5).
4. Install a new device as described in the Installation Manual.
5. Setup the system as described in the Installation Manual.

4.7.2 Exchange Other Drive System Parts

Use this procedure if parts of the drive system (e.g., cables) must be replaced.

1. Decommission the device.
See "Decommissioning" (→ p. 5).
2. Exchange the parts.
3. Check all connections for correct fastening.
4. Setup the system as described in the Installation Manual.

4.8 Transport

NOTICE

Use these specifications to transport the PCMM2G.

The specifications are in accordance with IEC 61800-2.

- Transport is only allowed by qualified personnel in the manufacturer's original recyclable packaging.
 - Avoid shocks while transporting.
- Store at or below a maximum stacking height of 8 cartons.
- Transport only within specified temperature ranges:
 - -25 °C to +70 °C, maximum rate of change 20 K/hour, class 2K3.
- Transport only within specified humidity:
 - Maximum 95% relative humidity, no condensation, class 2K3.

NOTICE

- The PCMM2G contains electrostatically sensitive components that can be damaged by incorrect handling.
- Electrostatically discharge your body before touching the PCMM2G.
- Avoid contact with highly insulating materials (e.g., artificial fabrics, plastic film etc.)
- Place the PCMM2G on a conductive surface.

NOTE

- If the packaging is damaged, check the unit for visible damage.
- Inform the shipper and the manufacturer of any damage to the package or product.

5 Package Supplied

PCMM2G means **P**rogrammable **C**ontroller **M**ulti-Axis **M**aster **2**nd **G**eneration.

The controller includes programmable motion control using PLCopen or Pipe Network motion engines and PLC with multiple IEC 61131 languages.

EtherCAT connects the PCMM2G to other components in the drive system.

When a PCMM2G controller is ordered, these items are included in the package:

- PCMM2G controller.
- Printed PCMM2G Safety Notes.
 - Contact Kollmorgen customer support for a printed copy of the installation manual.
- Mating connectors X1, X35, and X36.

NOTE

The mating SubD and RJ45 connectors are **not** included in the package.

6 Approvals

Certificates are on the [PCMM2G - Certifications](#) page of the Kollmorgen website.

6.1 Conformance with CE

NOTE

CE Declarations of Conformity can be found on the Kollmorgen website.

The PCMM2G has been tested by an authorized testing laboratory in a defined configuration, using the system components that are described in this documentation.

- Any divergence from the configuration and installation described in this documentation means that the user will be responsible for carrying out new measurements to ensure conformance with regulatory requirements.
- Fair-Rite Material 75* EMI suppression was used to meet the EN 61800-3 requirements for conducted emissions for Ethernet connections to a public network.
- For connection X1: 1 turn on Fair-Rite p/n 0475164181 or equivalent.
- For connection X6 EtherCAT: 1 turn on Fair-Rite p/n 0475164181 or equivalent.



Cable - Fair-Rite

NOTICE

These devices can cause high-frequency interferences in non industrial environments and may require measures for interference suppression (such as external EMC filters).

Kollmorgen declares the conformity of the product series PCMM2G with:

- **EC Directive 2014/30/EU, Electromagnetic Compatibility**
Used harmonized standard EN 61800-3:2004 / A1: 2012 and EN 61800-3:2018.

6.2 Conformance with UL/cUL

This product is listed under UL (Underwriters Laboratories Inc.) file number E244217.

6.3 UL Markings / Marquages UL

English	Français
Identification of the terminals on the controller are coded so they may be identified in the instructions.	Les bornes de l'unité de contrôle sont codées pour faciliter leur identification dans les instructions.
These devices are intended to be used in a pollution degree 2 environment.	Ces appareils sont prévus pour une utilisation dans un environnement de pollution de niveau 2.
Maximum ambient air temperature of 55 °C.	La température de l'air ambiant doit être de 55 °C maximum.

6.4 Conformance with REACH

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals [REACH Regulations].

EU REACH Article 33 - Communication on SVHC identified in the Candidate List of Substances of Very High Concern (SVHC) for Authorisation.

Articles used in PCMM2G drives may contain REACH SVHCs in concentrations above 0.1%.
Contact your Kollmorgen Sales Representative for the most up to date REACH SVHC information.

6.5 Conformance with RoHS

The drives are manufactured in conformance with the Directive 2011/65/EU (RoHS), including Delegated Directive 2015/863/EU for installation into Finished Electrical and Electronic Equipment (EEE).

One or more exemptions per Annex III of Directive 2011/65/EU may be applicable.

7 Kollmorgen Documentation Legal Information

The information in these pages is only for the technical documentation (e.g., Safety Notes, User Manuals, etc.) legal information.

This information does not represent Kollmorgen company-wide legal information.

7.1 KAS - Copyrights, Trademarks, Patents, Licenses, and Disclaimers	13
7.2 Kollmorgen Trademarks	13
7.3 Kollmorgen Patents	13
7.4 PCMM2G	14
7.5 Other Trademarks	15
7.6 3rd-party Licenses	16
7.7 Disclaimers	18

7.1 KAS - Copyrights, Trademarks, Patents, Licenses, and Disclaimers

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| • Kollmorgen Essentials Drive | • DDL | • PCMM2G |
| • Kollmorgen Essentials Motor | • DDR | • PowerMax |
| • AKD | • Goldline | • Servostar |
| • AKD2G | • Kollmorgen Automation Suite | • SafeMotion Monitor |
| • AKD PDMM | • KAS | • SMM |
| • AKM | • Kollmorgen Visualization Builder | • TBM |
| • AKMA | • KVB | • TBM2G |
| • AKME | • MKD | • WorkBench |
| • AKMH | • Motioneering | |

7.3 Kollmorgen Patents

Any of these Kollmorgen patents may be used and/or identified in Kollmorgen products, firmware, and/or software.

- US Patent 2017/0211640 (method and apparatus for power saving, fail-safe control of an electromechanical brake), patent pending.
- US Patent 8,154,228 (Dynamic Braking For Electric Motors).
- US Patent 8,214,063 (Auto-tune of a Control System Based on Frequency Response).
- US Patent 8,566,415 (Safe Torque Off over network wiring).
- US Patent 10,374,468 (System and method for improved DC power line communication).
- US Patent 10,520,050 (Method and apparatus for power-saving, fail-safe control of an electromechanical brake).
- US Patent 10,840,696 (Method and apparatus for limiting the output voltages of switch mode power supplies).
- US Patent 16,247,478 (method and apparatus for limiting the output voltages of switching mode power supplies), patent pending.

Patents referring to fieldbus functions are listed in the matching fieldbus manual.

7.4 PCMM2G

The PCMM2G's Operating System (OS) and boot loader ([U-Boot](#)) are based on free and open-source software.

- The individual copyright notices, license texts, and disclaimers of warranty for the software components are located in the controller, under the directory: /usr/share/common-licenses/.
 - For more information about accessing the PCMM2G's files, see [SSH Login to a Controller](#).
- The OS, bootloader, and their software component's source codes including modifications, copyright notices, license texts, disclaimers of warranty, and the compilation scripts to build the OS image are available at the Kollmorgen webpage [PCMM2G Operating System \(OS\) License Sources](#).
- The OS image and its corresponding sources file is identified by an "OS-Sources" designator, followed by its version number: OS-Sources-x.xx.x.xxxxx.
- The compilation scripts and sources file are available at the Kollmorgen webpage [PCMM2G Operating System \(OS\) Build Sources](#).
- See [PCMM2G - File Naming Conventions](#) in the KAS online help.

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- BiSS: iC-Haus GmbH.
- CANopen: CAN in Automation (CiA).
- DRIVE-CLiQ: Siemens Aktiengesellschaft.
- EnDat: Dr. Johannes Heidenhain GmbH.
- EtherCAT und Safety over EtherCAT: Beckhoff Automation GmbH.
- EtherCAT: Beckhoff Automation GmbH.
- EtherNet/IP Kommunikationsstack: Rockwell Automation.
- EtherNet/IP: ODVA, Inc.
- [Ghostscript](#): Artifex Software, Inc. (unter der [AGPL](#) Lizenz verbreitet).
- HIPERFACE DSL: SICK AG.
- HIPERFACE: SICK AG.
- HUMMEL: HUMMEL AG.
- Hysol: Hysol Huawei Electronics Co.,LTD.
- Instapak: Sealed Air Corporation.
- INTERCONTEC: INTERCONTEC Pfeiffer Industrie-Steckverbindungen GmbH.
- LOCTITE 640: Henkel AG & CO. KGAA.
- LOCTITE: Henkel AG & CO. KGAA.
- Modbus: Schneider Electric USA, Inc.
- MOLYKOTE: DDP Specialty Electronic Materials US 9, LLC.
- Mylar: DUPONT Teijin Films U.S.
- P3-topax: Henkel KGaA.
- PHOENIX CONTACT: Phoenix Contact GmbH & Co. KG.
- [PLCopen](#): An association registered with the Chamber of Commerce in The Netherlands (Reg. 40240111).
- PROFINET: PROFIBUS Nutzerorganisation e.V.
- Scotch-Weld 2214: 3M Company.
- sercos: Sercos International E.V.
- SIMATIC: Siemens Aktiengesellschaft.
- SpeedTec: Liqui-Moly GmbH or TE Connectivity Industrial GmbH.
If SpeedTec is used as a lubricant, it belongs to Liqui-Moly GmbH.
If SpeedTec is used as a connector, it belongs to TE Connectivity Industrial GmbH
- Teflon: The Chemours Company FC, LLC.
- Viton: The Chemours Company FC, LLC.
- Windows: Microsoft Corporation.

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Library	Product	License
7-zip	https://www.7-zip.org/	7-zip - License
Adafruit core graphics library	https://github.com/adafruit	https://github.com/adafruit/Adafruit-GFX-Library/blob/master/license.txt
Adafruit display library	https://github.com/adafruit	https://github.com/adafruit/Adafruit-ST7735-Library/blob/master/README.txt
Arduino Map function	http://creativecommons.org	http://creativecommons.org/licenses/by-sa/3.0/
C++ Mathematical Expression Library	http://www.partow.net/programming/exptrk/index.html	MIT License
civetweb: Embedded C/C++ web server	https://github.com/civetweb/civetweb	MIT License
CoreSight Library	http://www.apache.org	http://www.apache.org/licenses/LICENSE-2.0
curl software library		curl license
DockPanelSuite	http://sourceforge.net/projects/dockpanelsuite/	https://opensource.org/licenses/MIT
EtherNet/IP Communication Stack		Software Distribution License
FatFs	https://github.com/abbrev/fatfs	https://github.com/stm32duino/FatFs/blob/master/Licence.md
FileHelpers	http://sourceforge.net/projects/filehelpers	https://opensource.org/licenses/MIT
Font Awesome	https://fontawesome.com	https://fontawesome.com/license/free
Ghostscript	https://ghostscript.com/index.html	AGPL
Google Fonts Roboto Condensed	http://www.apache.org	http://www.apache.org/licenses/
GSL - Guideline Support Library	https://github.com/Microsoft/GSL	https://github.com/Microsoft/GSL/blob/master/LICENSE

Library	Product	License
libsodium	https://libsodium.org	https://github.com/jedisct1/libsodium/blob/master/LICENSE
jsoncpp software		jsoncpp License
log4net	http://logging.apache.org/log4net/	http://www.apache.org/licenses/LICENSE-2.0
LVGL	https://github.com/lvgl/lvgl	https://github.com/lvgl/lvgl/blob/master/LICENSE.txt
LwIP	https://savannah.nongnu.org	https://savannah.nongnu.org/projects/lwip/
mbed Microcontroller Library	http://www.apache.org	http://www.apache.org/licenses/LICENSE-2.0
mbed TLS	http://www.apache.org	http://www.apache.org/licenses/LICENSE-2.0
Microsoft Edge WebView2	https://developer.microsoft.com/en-us/microsoft-edge/webview2	Microsoft Edge WebView2 Runtime LICENSE
MigraDoc	http://www.pdfsharp.net/migradocoverview.ashx	http://www.pdfsharp.net/MigraDoc_License.ashx
Mongoose Library	https://github.com/cesanta/mongoose/tree/	Mongoose license
MVVM Light Toolkit	https://github.com/lbugnion/mvtmlight	https://galasoft.ch/license_MIT.txt
OpENer EtherNet/IP	https://github.com/EIPStackGroup/OpENer	http://eipstackgroup.github.io/OpENer/de/d7e/license.html
PdfSharp	http://www.pdfsharp.net/migradocoverview.ashx	http://www.pdfsharp.net/PDFsharp_License.ashx
Qt Framework	https://www.qt.io/product/framework	terms of the LGPL3
Qwt project	http://qwt.sourceforge.net/	Qwt
SharpZipLib	https://github.com/icsharpcode/SharpZipLib	https://github.com/icsharpcode/SharpZipLib/blob/master/LICENSE.txt
SNMP		http://www.net-snmp.org/about/license.html
SQLite	https://system.data.sqlite.org	https://system.data.sqlite.org/index.html/doc/trunk/www/copyright.wiki
U-Boot	http://www.denx.de/wiki/U-Boot	GNU General Public License 2.0
Zed Graph	http://sourceforge.net/projects/zedgraph/	https://opensource.org/licenses/LGPL-2.0
Zlib software library	https://www.zlib.net/	Zlib License

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