

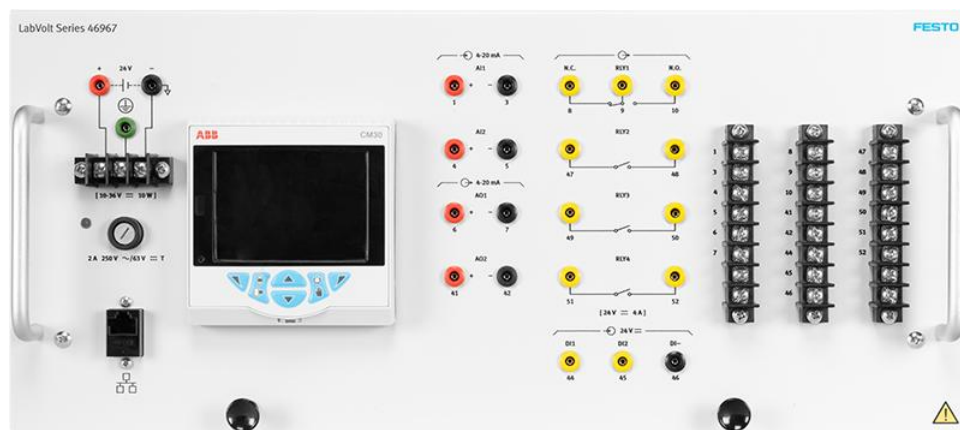
ABB CM30 PID Controller

8187460 (46967-00)



LabVolt Series

Datasheet



* The product images shown in this document are for illustration purposes; actual products may vary. Please refer to the Specifications section of each product/item for all details. Festo Didactic reserves the right to change product images and specifications at any time without notice.

Table of Contents

General Description	3
---------------------	---

General Description

The ABB CM30 PID Controller is equipped with several advanced control features that enhance its performance and adaptability in various applications. Some of these features may include:

1. **Auto-Tuning:** The CM30 can automatically adjust PID parameters based on the system's response, optimizing control performance without manual intervention.
2. **Feedforward Control:** This feature allows the controller to account for disturbances in the process, improving response time and stability.
3. **Cascade Control:** The ability to control multiple loops or processes in a hierarchical manner, where one controller's output serves as the setpoint for another.
4. **Ratio Control:** This feature enables the controller to maintain a specific ratio between two or more process variables, which is useful in blending applications.
5. **Split-range Control:** This feature allows a single control signal to be distributed to multiple control elements or actuators, each operating within a specific range of the control signal.
6. **Advanced control:** The controller supports predictive and adaptive control strategies.
7. **Advanced Alarm Management:** The CM30 can provide detailed alarm management, allowing users to set thresholds and receive notifications for various process conditions.
8. **Data Logging and Trending:** The ability to log process data over time helps in analyzing performance and making informed decisions for process optimization.
9. **Flexible Control Modes:** In addition to standard PID control, the CM30 may support other control modes like ON/OFF control, which can be advantageous in certain applications.
10. **Network Connectivity:** Support for communication protocols allows for integration into larger control systems, enabling remote monitoring and control.

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2025. All rights reserved.

Festo Didactic SE

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

Festo Didactic Inc.

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

Festo Didactic Ltée/Ltd

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

www.labvolt.com

www.festo-didactic.com