Installation Instructions

Original Instructions

Allen-Bradley
by ROCKWELL AUTOMATION

MicroLogix 1200 16-point DC Input Module

Catalog Number 1762-IQ16

Summary of Changes

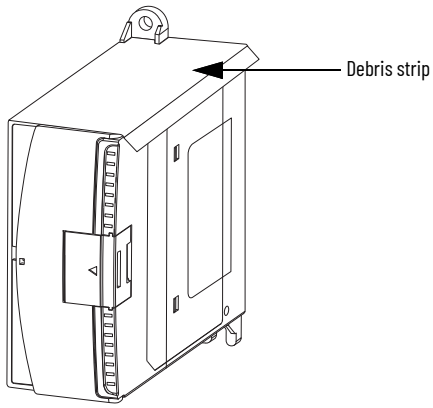
This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Updated template	throughout
Added Inclusive Language acknowledgment	2
Updated Environmental Specifications	10
Updated Certifications	11
Updated Additional Resources	11

Product Overview

The MicroLogix™ 1200 16-point DC input module is suitable for use in an industrial environment when installed in accordance with these instructions. Specifically, this equipment is intended for use in clean, dry environments (Pollution degree 2[a]) and to circuits not exceeding Over Voltage Category II[b] (IEC 60664-1)[c].

MicroLogix 1200 16-point DC Input Module



ATTENTION: Do not remove the protective debris strip until after the module and all other equipment in the panel near the module are mounted and wiring is complete. Once wiring is complete, remove the protective debris strip. Failure to remove the strip before operating can cause overheating.

ATTENTION: Electrostatic discharge (ESD) can damage semiconductor devices inside the module. Do not touch the connector pins or other sensitive areas.

(a) Pollution Degree 2 is an environment where, normally, only non-conductive pollution occurs except that occasionally a temporary conductivity that is caused by condensation is expected.
(b) Over Voltage Category II is the load-level section of the electrical distribution system. At this level, transient voltages are controlled and do not exceed the impulse voltage capability of the product's insulation.
(c) Pollution Degree 2 and Over Voltage Category II are International Electrotechnical Commission (IEC) designations.

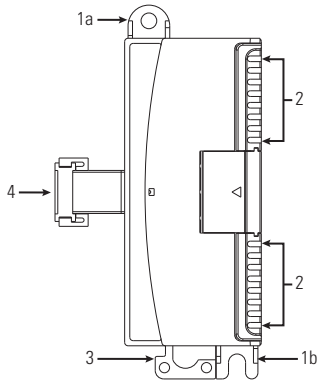
Rockwell Automation

ATTENTION:
Remove power before removing or installing this module. When you remove or install a module with power applied, an electric arc may occur. An electric arc can cause personal injury or property damage by:

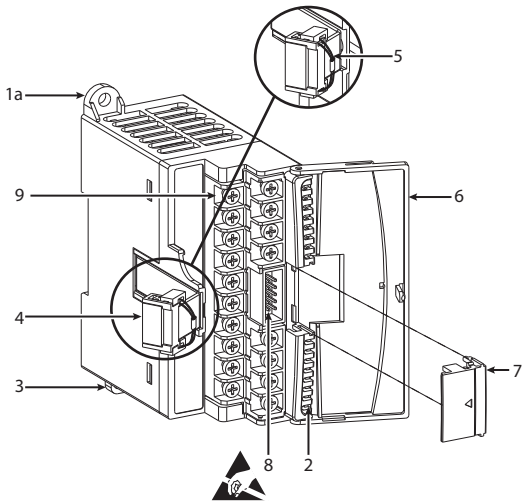
- Sending an erroneous signal to your system's field devices, causing unintended machine motion
- Causing an explosion in a hazardous environment
- Causing permanent damage to the module's circuitry. Electrical arcing causes excessive wear to contacts on both the module and its mating connector. Worn contacts may create electrical resistance.
- Do not remove the protective debris strip until after the module and all other equipment near the module is mounted and wiring is complete. Once wiring is complete and the module is free of debris, carefully remove protective debris strip. Failure to remove the strip before operating can cause overheating.
- During panel or DIN rail mounting of all devices, be sure that all debris (metal chips, wire strands, and so on) is kept from falling into the module. Debris that falls into the module could cause damage when power is applied to the module.

IMPORTANT Any illustrations, charts, sample programs, and layout examples that are shown in this publication are intended solely for the purposes of example. Since there are many variables and requirements that are associated with any particular installation, Rockwell Automation does not assume responsibility or liability for actual use based on the examples that are shown in this publication.

Figure 1 - 1762-IQ16 Module Overview



Front view



Left side view

Module Description

	Description		Description
1 a	Upper panel mounting tab	5	Pull loop
1 b	Lower panel mounting tab	6	Module door with terminal identification label
2	I/O diagnostic status indicators	7	Bus connector cover
3	DIN rail latch	8	Bus connector with male pins
4	Flat ribbon cable with bus connector (female pins)	9	Terminal block

This equipment is sensitive to ESD. Follow ESD prevention guidelines when handling this equipment.

ATTENTION: To comply with UL restrictions, this equipment must be powered from a source compliant with Class 2 or Limited Voltage/Current.

Mount the Module

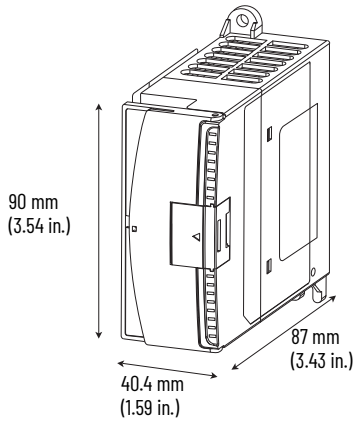
General Considerations

Most applications require installation in an industrial enclosure to reduce the effects of electrical interference and environmental exposure. Locate your controller as far as possible from power lines, load lines, and other sources of electrical noise such as hard-contact switches, relays, and AC motor drives. For more information on proper grounding guidelines, see the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.

ATTENTION: This product is intended to be mounted to a well-grounded mounting surface such as a metal panel. Additional grounding connections from the power supply's mounting tabs or DIN rail (if used) are not required unless the mounting surface cannot be grounded. See the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1, for additional information.

Mounting Dimensions

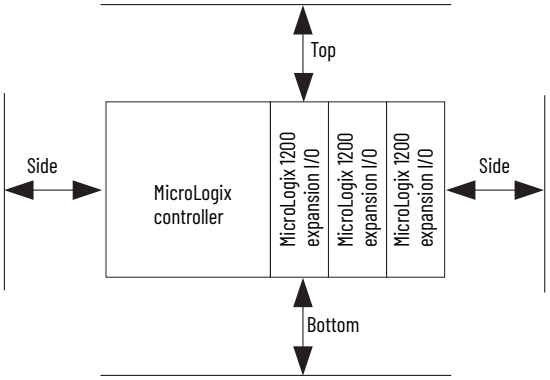
Dimensions do not include the mounting feet and DIN rail latches.



Module Spacing

Maintain spacing from objects such as enclosure walls, wireways, and adjacent equipment. Allow 50.8 mm (2 in.) of space on all sides for adequate ventilation, as shown in Figure 2.

Figure 2 - Module Spacing



IMPORTANT MicroLogix 1200 expansion I/O can be mounted horizontally only.

DIN Rail Mounting

Use one of the following DIN rails to mount the module:

- 35 x 7.5 mm (EN 50 022 - 35 x 7.5)
- 35 x 15 mm (EN 50 022 - 35 x 15)

For environments with greater vibration and shock concerns, use the Panel Mounting method instead of DIN rail mounting.