

# MLX200



PROGRAM AND CONTROL ROBOTS ENTIRELY THROUGH PLC



## KEY FEATURES

Enables unified controls architecture with PLC as a single control scheme for the entire application; no special language or controller is required.

Easy-to-use and maintenance-friendly system with widely familiar ControlLogix® or CompactLogix® PACs.

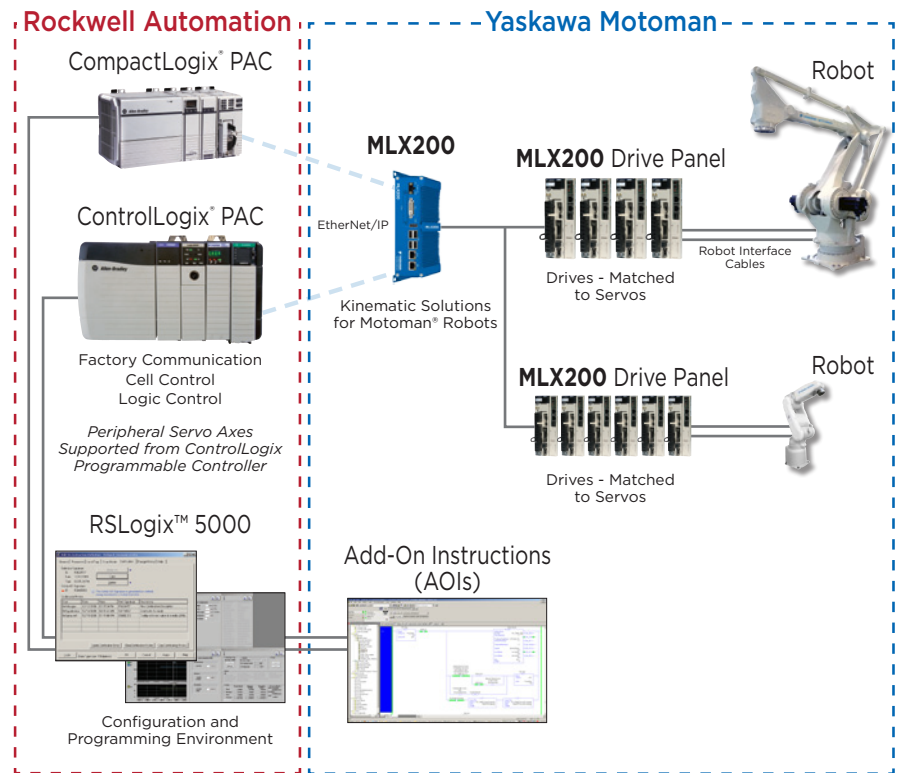
Applicable to variety of applications and environments with seamless robot integration and wide range of Motoman® robot models.

- MLX200 enables easy programming and control of multiple Motoman robots entirely through the Rockwell Automation ControlLogix® and CompactLogix® Programmable Automation Controllers.
- Widely accepted Rockwell programming environment for robot control makes it easy for maintenance staff familiar with ladder logic to troubleshoot and maintain robots.
- Add-On-Instructions for the RSLogix programming environment allow various robot operations and programming such as teaching points, user frames and tool data, jogging robot, initiating motion commands for Cartesian space or joint space.
- Single programming language and single PLC controller architecture for all components in the robot workcell simplifies application and resource utilization and promotes faster development.
- Graphical User Interface (GUI) screens are compatible with Rockwell Automation FactoryTalk® View software v6.1 and above.
- Commercial, off-the-shelf components from Rockwell Automation and Yaskawa reduce spare parts burden.
- Packed with advanced robot kinematics and motion planning algorithms, the MLX200 manages robot path planning, including blending of motion for the entire robot kinematics.
- Simplified hardware architecture eliminates redundant hardware interfaces and fieldbus nodes; significantly reduces complexity of setup and enhances system reliability.

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## UNLIMITED APPLICATION POSSIBILITIES

- Multiple robots can be programmed and controlled simultaneously through the PLC. A single control module can control up to two robots and a single PLC can control multiple MLX200 control modules.
- MLX200 supports a wide range of 4-7 axis Motoman robots with payload capacity from 5 kg-300 kg.
- With panel-mounted robot drives, users can specify enclosure material and ingress protection (IP) rating suitable for the application environment. This enables use of robots in variety of environments.
- Advanced conveyor tracking functionality with multiple scheduling algorithms, built-in visual setup and ability to track parts on multiple conveyors simplifies complex applications such as picking, part transfer and kitting.
- Vision-guided applications are simple to implement due to Add-On-Instructions for Rockwell PACs.



### ROBOT CONTROL PANEL

<b>Drives Panel Dimensions</b> <sup>1</sup>	820 mm (H) x 655 mm (W) x 290 mm (D) (32.3 in x 25.8 in x 11.4 in) Regenerative resistor
<b>Approximate Mass</b>	47 kg (103.6 lbs)
<b>Ambient Temperature</b>	0° to 45°C operating temperature
<b>Relative Humidity</b>	85% Non-condensing
<b>Power Requirement</b>	230 VAC 3PH 50/60 Hz
<b>Protection Rating</b>	Not Rated <sup>2</sup>
<b>Position Feedback</b>	Absolute Encoders
<b>Number of Robots</b>	Two robots per control module

### SAFETY FEATURES

<b>Hardware</b>	Dual-channel emergency stop and safety gate inputs Pendant (optional) supports E-Stop push button, three-position enable switch and key-lock
<b>Software</b>	Cubic interference zones Software based limit monitoring Brake release User level password protected authentication
<b>Conformance</b>	ANSI/RIA 15.06-1999

### PENDANT

<b>Dimensions</b>	232 mm (H) x 259 mm (W) x 55 mm (D) (9.1 in x 10.2 in x 2.2 in)
<b>Display</b>	7.5 in TFT color touch screen
<b>Weight</b>	1.2 kg (2.6 lbs)
<b>Protection Rating</b>	IP65
<b>Features</b>	Three-position servo enabling switch E-Stop push button Key-switch for mode change

### PROGRAMMING

<b>Programming Language</b>	Rockwell RSLogix based ladder logic
<b>Environment</b>	RSLogix 5000 V19 and above
<b>HMI</b>	FactoryTalk View compatible .MER Minimum requirement: FactoryTalk View 6.1 and above

<sup>1</sup> Dimensions shown for the MPL160-MLX200 robot panel. For accurate dimensions please request drawings.

<sup>2</sup> Enclosure for drive panel will be customer supplied to meet appropriate protection ratings deemed necessary for the application.



[motoman.com](http://motoman.com)

Yaskawa America, Inc. | Motoman Robotics Division  
100 Automation Way | Miamisburg, OH 45342  
Tel: 937.847.6200 | Fax: 937.847.6277

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