

MLX200

MLX
Unified Controls™

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.

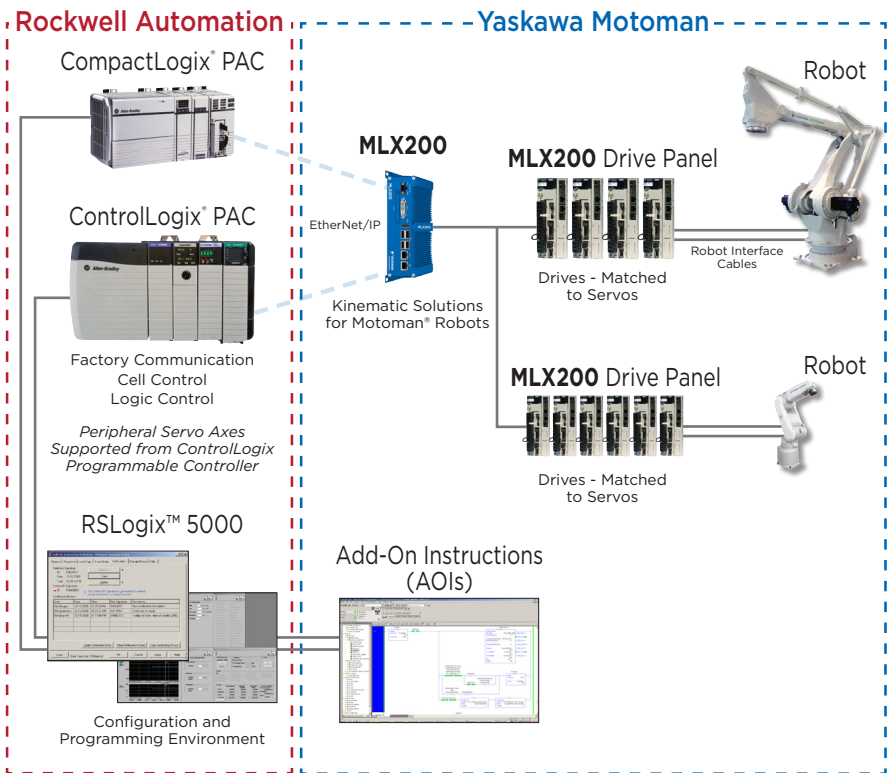
Applicable to variety of applications and environments with seamless robot integration and wide range of Motoman® robot models.

- MLX200 enables easy programming and control of multiple Motoman robots entirely through Rockwell Automation's ControlLogix® and CompactLogix™ Programmable Automation Controllers.
- Add-On-Instructions within RSLogix™/ Studio 5000™ Logix Designer 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.
- Graphical User Interface (GUI) screens are compatible with Rockwell Automation FactoryTalk® View software v6.1 and above.
- Packed with advanced robot kinematics and motion planning algorithms, the MLX200 manages robot path planning, including blending of motion for the entire robot kinematics.
- Widely accepted Rockwell programming environment for robot control makes it easy for maintenance staff familiar with ladder logic to troubleshoot and maintain robots.
- Single programming language and single PLC controller architecture for all components in the robot workcell simplifies application and resource utilization and promotes faster development.
- Commercial, off-the-shelf components from Rockwell Automation and Yaskawa reduce spare parts burden.
- 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 3 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

Drives Panel Dimensions¹	820 mm (H) x 655 mm (W) x 290 mm (D) (32.3 in x 25.8 in x 11.4 in) Regenerative resistor
Approximate Mass	47 kg (103.6 lbs)
Ambient Temperature	0° to 45°C operating temperature
Relative Humidity	85% Non-condensing
Power Requirement	230 VAC 3PH 50/60 Hz
Protection Rating	Not Rated ²
Position Feedback	Absolute Encoders
Number of Robots	Two robots per control module

SAFETY FEATURES

Hardware	Dual-channel emergency stop and safety gate inputs Pendant (optional) supports E-Stop push button, three-position enable switch and key-lock
Software	Cubic interference zones Software based limit monitoring Brake release User level password protected authentication Collision detection protection
Conformance	ANSI/RIA 15.06-2012

PENDANT (purchased directly from Rockwell Automation)

Dimensions	274 mm (H) x 352 mm (W) x 108.5 mm (D) (10.8 in x 13.9 in x 4.27 in)
Display	10.1 in TFT color touch screen
Weight	1.55 kg (3.42lbs)
Protection Rating	IP65
Features	Three-position servo enabling switch E-Stop push button

PROGRAMMING

Programming Language	Rockwell RSLogix based ladder logic
Environment	RSLogix 5000 V20.04 and above
HMI	FactoryTalk View compatible .MER Minimum requirement: FactoryTalk View 6.1 and above

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

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

MLX-controlled robots are tested for floor mounting. Contact Yaskawa Motoman regarding different mounting requirements.

YASKAWA

motoman.com

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