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OPTIONAL CUSTOM HMI

MULTIPLE ROBOT CONTROL

LADDER EDITOR

Motoman Robotics' NX100 robot controller offers high performance, open communication, and integrated cell control

NX100
—ROBOT CONTROLLER—

FEATURES & OPTIONS

- Patented multiple robot control capability (up to FOUR robots with one pendant)
- Windows® CE operating system on programming pendant
- Standard Ethernet communication
- Compliance with ANSI/RIA R15.06-1999 safety standard
- Unmatched memory: 60,000 steps (taught points), 10,000 ladder (concurrent I/O) instructions
- On-board graphical ladder editor
- Ability to fit up to three external axis servo amplifiers

The revolutionary NX100 controller features a Windows® CE programming pendant with color touch screen, high-speed processing, unmatched memory (60,000 steps, 10,000 instructions), built-in Ethernet, and a robust PC architecture. The NX100 features password protection with four levels and up to 100 individual users.

The NX100 easily handles multiple tasks, with unmatched ability to control up to four robots (up to 36 axes, including robots and external axes), and I/O devices. Dynamic interference spheres protect the robot arm, providing collision avoidance/arm interference prevention. Advanced Robot Motion (ARM) control provides high-performance path accuracy and vibration control. In addition, the NX100 features best-in-class path planning that dramatically reduces teaching time.

The programming pendant features a unique cross-shaped navigation cursor that reduces teaching time by 30 percent. It has full-color touch-screen display and a convenient compact flash slot for easy memory back-ups. All operator controls are located on the pendant, allowing the control cabinet to be mounted remotely.

Dual-channel safety features include enhanced E-Stop functionality, integrated speed monitoring, and manual brake release for the robot.

The NX100 also offers unmatched connectivity, highly flexible Fieldbus support, and easy connection to an information infrastructure through standard network options for DeviceNet, ControlNet, Profibus-DP, EtherNet/IP, and many others. An optional web server that allows remote monitoring and diagnosis is available.

By eliminating the need for a separate PLC, PC-based human machine interface (HMI), and separate password protection hardware, and by providing a standard Ethernet port, the NX100 delivers significant cost savings at the system level, while also decreasing system complexity and improving overall system reliability.

Motoman Nx100 Controller Programming Manual

Károly Jármai,Katalin Voith

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