

AW

ROBOT CONTROLLER

AW Nachi Industrial Robot Controller

This high-performance, multi-tasking controller offers an open concept design, along with increased performance and improved menu-driven programming. Reliability and safety are also important features of the AW controller. With a smaller footprint than our previous controller the AW offers more options and improved programming efficiency.

Control Features

- 50 mm short pitch move; 30% quicker
- High-speed interference detection
- Advanced 32-bit high-speed DSP motion control
- Improved maintenance access
- Protection for motor control circuit
- Amplifier power loss reduced by 40%

Enhanced Software

- Path unaffected by speed change
- Customized pendant display function
- High-speed CPU produces smooth operation

Teach Pendant

- User-friendly, ergonomic design, easy to use
- Color graphic Windows®-style display with pull-down menus
- Customized pendant display functions - you can configure



Applications

Used on all Nachi robot products

Open Concept

- Extends to industry standard bus (ISA/PCI)
- Supports Windows® applications (with extra printed circuit board)
- PC operation ease with industrial reliability



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Features

Controlled Axes	Simultaneous 6 axes (standard), additional 10 axes optional
Memory Capacity	28,000 robot program points
CPU	32-bit microprocessor
Memory	IC RAM with battery back-up
Positioning Device	Absolute encoder
Drive System	Fully digital with DSP control AC Servo motors

Control Cabinet

Unit	Free standing, NEMA 12
Dimensions	Height: 1,180 mm Width: 600 mm Depth: 550 mm
Weight	260 kg

Programming Features

Program Selection	999 programs (BCD), 10 programs (discrete)
Programming	ICON and menu driven
Display Unit	Interactive teach pendant Windows®-style interface User programmable menu display Color graphic display with fine resolution
Language	SLIM (robot language)
System Software	Flash ROM
Application Software	Spot weld, seal, spray, arc, palletize, and more Integrated spot (Nachi or Medar) Integrated arc (Nachi)
Additional Features	User macros User coordinates Multi-robot control

Equipment Interface

Interface	PCMCIA port/3.5" FDD/RS232C/RS422/Ethernet
Input/Output (Standard)	32 inputs VDC 32 outputs VDC
(Optional)	56 inputs VDC 48 outputs VDC
Input/Output (Optional)	120 VAC capabilities expandable up to 40 inputs/outputs AB RIO Node adapter (full rack) Device Net
Analog Signal	Input: 2 channels Output: 3 channels
Conveyor Pulse Counter	2 channels
Additional Features	Extended bus, ISA, PCI, CPC1

Power Supply

(Standard)	480 VAC ±10%, 3 Phase, 50 or 60 Hz
(Optional)	575 VAC ±10%, 3 Phase, 50 or 60 Hz (Canada) Others available

Environmental

Ambient Temperature Rating	0 to 45 degrees C
Ambient Humidity	20 to 85 RH
Cooling Method	Heat exchanger

Nachi Robotic
Systems Inc. (NRS)
North American Headquarters
22285 Roethel Dr.
Novi, MI 48375
Tel: 248.305.6545
Fax: 248.305.6542
www.nachirobotics.com

Indiana Branch Office
5032 West 79th St.
Indianapolis, IN 46268
Tel: 317.870.0390
Fax: 317.870.0395

Toronto Branch Office
89 Courtland Ave. #2
Concord, ONT
Canada L4K 3T4
Tel: 905.760.9542
Fax: 905.760.9477

Mexico Branch Office
Oficina de Representacion
Ingenieros Militares 85, "C" 1-2
Col. Argentina 11230
Mexico, D.F. Mexico
Tel: 52.55.5576.7148
Fax: 52.55.5576.4495