

Enhancing Allen-Bradley Functionality with GracePort® Panel Interface Connectors

Grace Technologies is a trusted Rockwell Automation partner and has developed GracePort panel interface connectors specifically for Allen-Bradley products, enhancing safety, productivity, and seamless integration.

These connectors play a critical role in industrial operations by ensuring efficient communication, control, data transfer, programming, monitoring, and diagnostics.



Top 10 GracePort® Configurations with Allen-Bradley Components



P-B9-B3RX

Allen-Bradley DH+ Combination (DB9/8MiniDIN), UL Type 4



P-A10R2-F3RX

A-B SCANport, Category 5e Ethernet, UL Type 4.



P-B9-M3RF3

Allen-Bradley DH+ Combination (DB9/8MiniDIN), Domestic GFCI Inside-Outside Rear Duplex Outlet, UL Type 4



P-A14R2-K3RF3

A-B MicroLogix 1200 Extension, Category 5e RJ45, GFCI Duplex Inside-Outlet, UL Type 4.



P-A10B9R2-M3R3

A-B SCANport, Allen-Bradley DH+ Combo (DB9/8MiniDIN), Category 5e Ethernet, UL Type 4



P-B6B9-M3R0

A-B DH+ / Remote I/O, Simplex Outlet, UL Type 4.



P-A14-F3R3

A-B MicroLogix 1200 Extension, Simplex Outlet, UL Type 4



P-A16R2-K3RFO-C7

CompactLogix Cable, Category 5e RJ45, UL Type 4.



P-A19-K2RF3

A-B PowerFlex, GFCI Duplex Inside-Outlet, UL Type 4X.



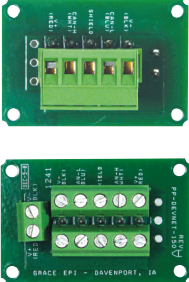
P-B14-H3R3-CO

A-B SLC 500 DH-485, Simplex Outlet, UL Type 4.

Key Functions of Industrial Automation Systems

- **Communication and Data Exchange:** Communication between controllers, HMIs, and other devices ensures synchronized operations. Data exchange allows the sharing of critical information, ensuring system components work together efficiently.
- **Control:** Controllers send commands to actuators and sensors to perform specific tasks, maintaining automation and precision in industrial processes.
- **Data Transfer:** Transferring performance metrics and system status enables real-time monitoring and diagnostics, optimizing operations and preventing downtime.
- **Programming and Network Management:** Programming updates and network management ensure the system operates with the latest configurations and security protocols.
- **Monitoring and Diagnostics:** Continuous monitoring and diagnostics help identify and address issues early, maintaining system health and efficiency.

Allen-Bradley Components

Allen-Bradley Component	Component Function	GracePort® Connector Code
A-B FlexLogix Cable	Connects FlexLogix controllers, facilitating seamless data transfer and control.	A17
A-B SLC 500 DH-485 Bulkhead	Provides DH-485 communication for SLC 500 controllers, enabling efficient data exchange and control.	 B14
AIC+ Port 2 Cable	Connects to AIC+ interface modules, ensuring reliable communication within the control system.	A13
CompactLogix Cable	Enables serial communication for CompactLogix controllers, supporting programming and data transfer.	 A16
ControlLogix Cable	Facilitates serial communication for ControlLogix controllers, aiding in programming and diagnostics.	A8
DeviceNet (8A Max)	Provides network connectivity in DeviceNet systems, supporting multiple industrial devices.	 D4
MicroLogix (Series C) Cable	Ensures communication within MicroLogix controllers, maintaining system integration.	A14

MicroLogix 1500-LRP (DB-9) Cable	Facilitates DB-9 serial communication for MicroLogix 1500-LRP controllers, supporting programming and diagnostics.	A18
PanelView (Serial) Cable	Provides serial communication for PanelView HMIs, enabling programming and monitoring.	A5
PLC-5 Channel 0 (DB-25) Cable	Enables DB-25 serial communication for PLC-5 controllers, supporting programming and data exchange.	A11
PowerFlex Cable	Provides secure connections for PowerFlex drives, ensuring reliable data transfer and control.	 A19
PowerFlex 40, 400 B/H Cable	Facilitates communication and control for PowerFlex drives.	A20
SCANport Cable	Ensures communication within SCANport modules, supporting system integration.	 A10
SLC 500 DH-485 (20' Cable)	Provides extended DH-485 communication for SLC 500 controllers, enabling efficient data exchange.	B1
SLC-500 Channel 0 Cable	Enables serial communication for SLC-500 controllers, supporting programming and diagnostics.	A12
A-B ControlNet (20' Cable)	Provides secure ControlNet communication for data transfer and network management.	B10
ControlNet (75 Ohm BNC tap)	Ensures reliable BNC tap connections for ControlNet systems.	B7
ControlNet RJ-45 (20' Cable)	Facilitates RJ-45 connections for ControlNet communication.	B4
MicroLogix 1500 LRP, SLC, PLC5, Control Logix, Compact Logix, Flex Logix to PanelView(+) 300-1500	Provides custom crossover connections for Allen-Bradley controllers and PanelView interfaces.	R55
MicroLogix 1500 LRP, SLC, PLC5, Control Logix, Compact Logix, Flex Logix to PanelView 300 Micro	Ensures secure crossover connections for Allen-Bradley controllers and PanelView 300 Micro, facilitating efficient communication and control.	R54

GracePort® panel interface connectors enhance the functionality, safety, and efficiency of Allen-Bradley products. For more detailed information, visit GracePort.com or contact us at: sales@gracetechnologies.com.