

CompactLogix and PanelView Plus Earn Marine Certification

Two popular Allen-Bradley® CompactLogix® controllers and several PanelView™ Plus operator interfaces from Rockwell Automation® have received marine certification. This provides shipbuilders and manufacturers operating in marine-related environments with new scalable and powerful control system options for automating onboard operations and other marine-based applications.



The Allen-Bradley CompactLogix L32E and CompactLogix L35E controllers, and several PanelView Plus operator interfaces received the marine certification after passing a rigorous testing process conducted by seven global agencies over a 45-day period. Each model was tested to evaluate its performance in high humidity and extreme hot and cold temperatures, as well as their vibration and electromagnetic compatibility, as defined by the marine societies and International Electrotechnical Commission (IEC) standards. Tests were also carried out to ensure that radio frequency emissions do not exceed the established marine industry standards, as excessive emissions can potentially interfere with the performance of a ship's electronic devices.

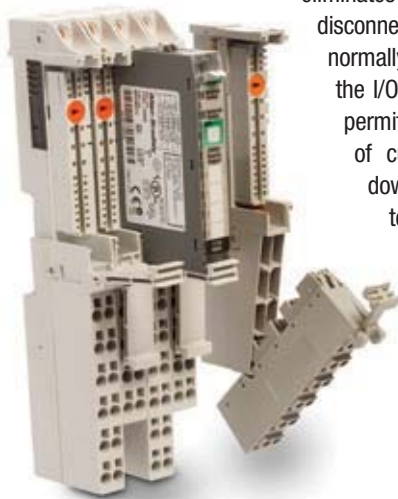


Marine environments present unique operational challenges for automation equipment. The proven CompactLogix controllers and PanelView Plus operator interfaces offer the ideal mix of attributes to help meet these tough application demands.

New Bases for FLEX I/O and POINT I/O

Delivering high performance and installation flexibility, two new compact bases for Allen-Bradley® I/O are ideal for machine-builders and end-users who need to install I/O close to other equipment such as sensors and actuators. The 1794-TBKD “knife disconnect” terminal base for FLEX™ I/O, and the one-piece terminal base for POINT I/O™ modules, provide simplified access to terminal connection points, thereby fast-tracking wiring and installation.

The new 1794-TBKD knife disconnect terminal base for FLEX I/O is compatible with eight- and 16-point discrete modules. This innovation eliminates the need for a separate knife disconnect isolation block, which would normally be required to troubleshoot the I/O performance. The 1794-TBKD permits measurement and calibration of current loops without shutting down the system or rewiring the termination point.



The 1794-TBKD provides single-pole, single-throw (SPST) knife switch action for each side of the I/O channels for modules with up to eight points, or for a single side of I/O channels for modules with up to 16 points. The 16 SPST switches and 28



screw terminations allow users to avoid additional wiring terminations, potentially minimising wiring errors during set-up and maintenance.

The new one-piece terminal base for POINT I/O systems reduces installation cost by eliminating the removable terminal block. It is ideal for machine-building applications where flexibility and low-cost design are crucial.

The one-piece base is interchangeable with the two-piece POINT I/O bases, allowing users to mix-and-match I/O nodes. Both feature single-action remove/reinsert functionality, with the one-piece bases available with screw or spring clamps.

The “knife disconnect” terminal base for FLEX I/O, and the one-piece terminal base for POINT I/O modules, provide simplified access to terminal connections, fast-tracking wiring and installation.

New PanelView Component HMIs Improve Productivity

A new family of human-machine interface (HMI) solutions offers OEMs and users a quality interface with the right amount of control at an affordable price. The Allen-Bradley® PanelView™ Component operator interface, created for preferred integration with the Allen-Bradley MicroLogix™ controller, provides on-terminal software, built-in mounting clamps and simplified file-transferring capabilities.

The unique design of the PanelView Component operator interface makes installing, learning, operating and maintaining processes quick and easy. The simplified screen interface displays the operating status clearly, making it easier to design applications. Users get direct access through any Web browser, online or offline, and can programme or transfer files through USB cable or over Ethernet, eliminating the need to install additional software.

The line of PanelView Component products is available in four models. Features include:

- **C200:** Operator input through function keys or a combination of function and numeric keys. Two-inch monochrome, graphic-display screen. Serial connection. Integrated mounting clamps.
- **C300:** Operator input through a touchscreen or a combination of function and numeric keys. Three-inch monochrome, graphic-display screen. Serial connection. Integrated mounting clamps.



- **C600:** Operator input through a touchscreen. Six-inch monochrome or color STN passive screen. Serial or Ethernet connection. Integrated mounting clamps.

- **C1000:** Operator input through a touchscreen. Ten-inch color TFT active screen. Serial or Ethernet connection.

The integrated mounting clamps make the terminal simple to install. The clamps adjust to fit the panel opening and snap into place, eliminating the need for additional tools or parts.

Additional features include an alarming system that supplies operators with the history of equipment events even after the PanelView Component power is cycled. It also comes with language support that displays information in various languages including Chinese, Japanese and Korean.

For more information, visit:

www.ab.com/eoi/graphicterminals/panelviewcomponent.html



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Liquid-Cooled Drive Saves Space

The Allen-Bradley® PowerFlex® 700L liquid-cooled drive combines high-power performance with a space-saving design. It can be installed in conditions where air-cooled drives simply could not operate, including dusty environments or those where increases in climate control costs would be excessive. Applications which can benefit from this technology include HVAC and chillers, pumping, oil and gas, and marine propulsion, among others.

The PowerFlex 700L is available in power ranges from 150-860kW and requires far less floor space than conventional air-cooled drives. Unlike other liquid-cooled drives, which require a coolant line to each insulated gate bipolar transistor (IGBT), the PowerFlex 700L features a single cooling input and output to the IGBTs. This proprietary liquid-cooled heat sink greatly increases power density, resulting in a drive that is up to 65 percent smaller than similarly power-rated air-cooled drives.

The simplified coolant system also makes it easier for users to integrate the drive coolant supply with existing systems, such as recycled plant water. If required, the single input/output system also makes it easier to incorporate a water-to-air heat exchanger loop to the cooling line.

In addition, the use of IGBTs instead of diodes in its AC-to-DC converter section results in the drive's active rectifier allowing regenerated energy to be safely returned to the facility's power system, boosting energy efficiency. Regenerative energy is actively modulated to avoid harmonic disturbances, making the drive one of the quietest in the industry.

An active rectifier also provides PowerFlex 700L with the ability to

boost and regulate the drive's DC bus voltage, minimising the effects of input voltage disturbances and power line dips, therefore helping to protect sensitive processes. This technology also provides a power line voltage boost that enables the drive to control a single voltage motor on both 400V and 480V power lines.

For more information, visit:
www.ab.com/drives/powerflex/700L



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High-Density Compact I/O Modules Improve Operational Flexibility

Additions to the popular **Allen-Bradley® Compact I/O™** range include new high-performance analog, digital and ASCII modules that accommodate a range of applications while conserving panel space. Providing improved installation and operational flexibility, the high-density modules are compatible with the Allen-Bradley CompactLogix™ and MicroLogix™ control platforms.

All Allen-Bradley Compact I/O modules feature a unique tongue-and-groove design that enables individual modules to be joined and locked together, allowing precise I/O configuration for specific applications. The I/O modules can be installed either on a panel with two mounting screws or on a DIN rail, eliminating the need for a rack, which saves panel space.

The new Compact I/O modules are available in a range of configurations:

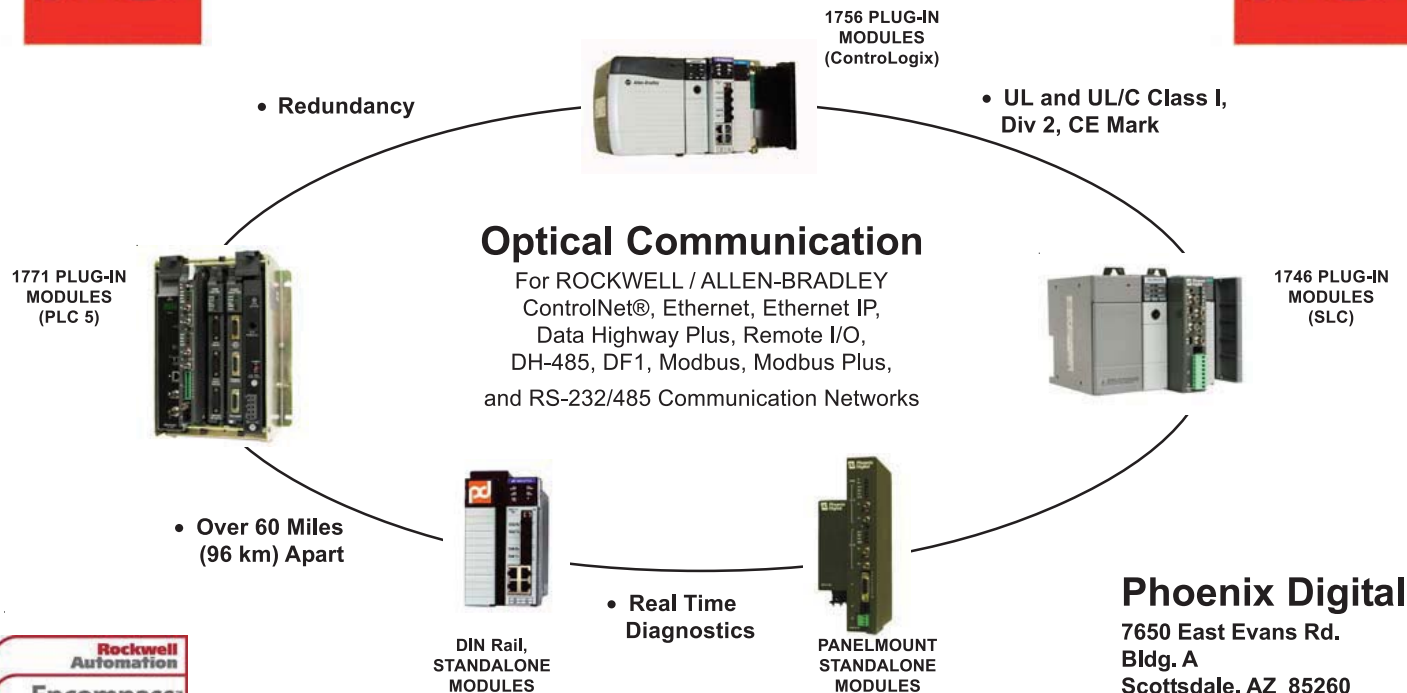
- **Isolated analog input (1769-IF4I) and output (1769-OF4CI, 1769-OF4VI):** The analog modules offer 16-bit resolution and up to four isolated channels, each with 500V AC or 710V DC for one-minute, channel-channel and channel-backplane isolation.
- **Digital input (1769-IQ32T) and output (1769-OV32T):** The new 32-point 24V DC digital modules feature a standard single-slot plastic case developed specifically to save panel space.
- **Serial ASCII (1769-ASCII):** The ASCII module features a two-channel serial ASCII interface with the capacity to support

ASCII messages of up to 200 characters. This module is ideal for connecting to bar-code scanners and printers as well as radio frequency identification (RFID) applications.

For more information, visit:
www.ab.com/en/epub/catalogs/12762/2181376/2416247/1239756/2688040/



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