PowerPanel™

Much more than an Operator Interface!

VISUALISATION • DATA ACQUISITION • STATISTICAL PROCESS CONTROL

Touch Panels are increasingly used in machines and processes to replace hard-wired control panels, text panels, and high-end workstations. But many Touch Panels available today are not so easy to program and have limited graphics. Licensing and cost of programming software is always an issue. Uticor invested 100,000+ engineering hours to address these issues in its new family of G^2 and Q^2 panels.

AVG Automation

UTICOR EZAutomation

AUTOTECH CONTROLS

Proudly supported throughout SE Asia and Australasia by

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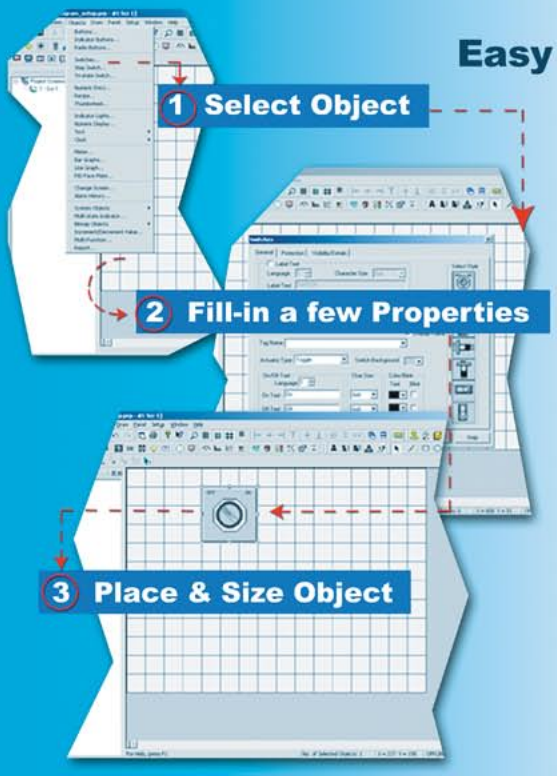
Revision 5

Intuitive & Simple to Use

Full 32-Bit Windows attributes to develop screens in the shortest time.



Easy as 1-2-3

One of the key goals was "ease-of-use." The programming software for the new panels is very intuitive, requiring virtually no learning curve. If you are familiar with Windows applications, you will be designing screens within minutes.

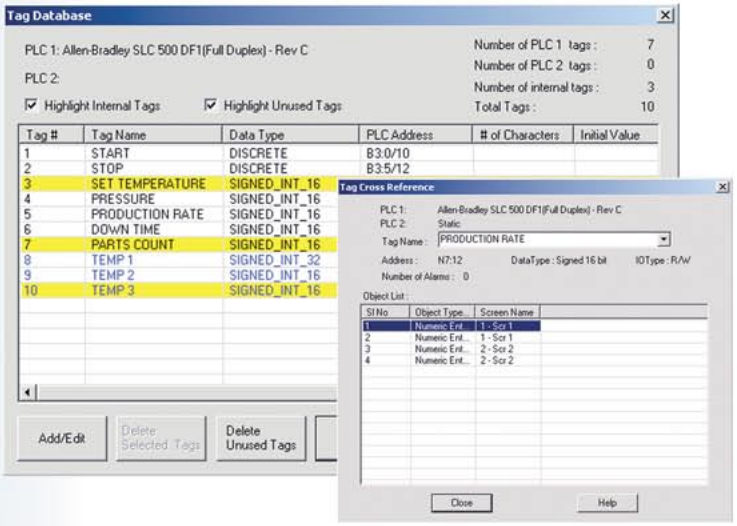
Tag Based Addressing Saves Time

The PLC addressing uses Tag names, so that you can associate meaningful, easy-to-remember names to the addresses. Additionally, Tags are useful if you use different PLCs with the same HMI program. You will need to design the HMI program only once! Then just change the Tag definitions to match the PLC you have to use — a wonderful time saving feature.

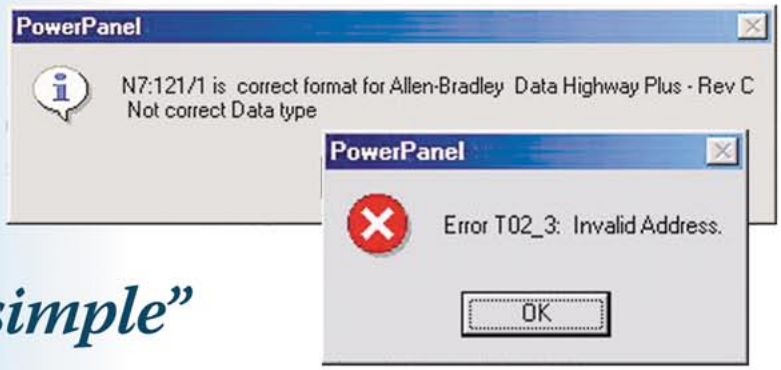
You can also export the Tag database to a CSV file or to an excel application. With UTICOR's PowerPanel editor you can monitor tag values & you can read as well as write to tags in PLC. This allows you to use PowerPanel editor to monitor PLC variables for diagnostic purposes (or any other purpose) without using PLC's ladder logic editor. (Panel editor does allow entry of PLC addresses in their native format also without the use of tag names.)

Syntax Checking of Address

PowerPanel editor's intelligent software checks for the PLC address syntax as well as the correct data type, at the time of its entry, making Power Panel's programming software virtually error-proof. By finding simple mistakes formed at the beginning of the programming process, this simple feature found on UTICOR's PowerPanels can save your company both time and money.



PowerPanel editor has several convenience features built-in to save you development time. You can highlight unused tags for error checking & cleanup. The cross-reference feature offers fast where-used list for tags.



"Screen design so simple"

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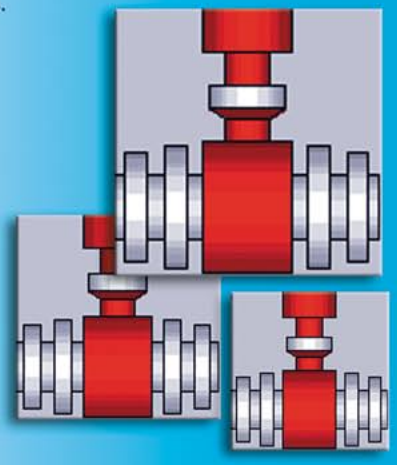
"Same feature set & programming across all sizes & models

All models have the same feature set & are programmed using a single, FREE software.
You can very easily switch from smaller panels to larger panels & vice verse.

Resize Bitmaps within Editor

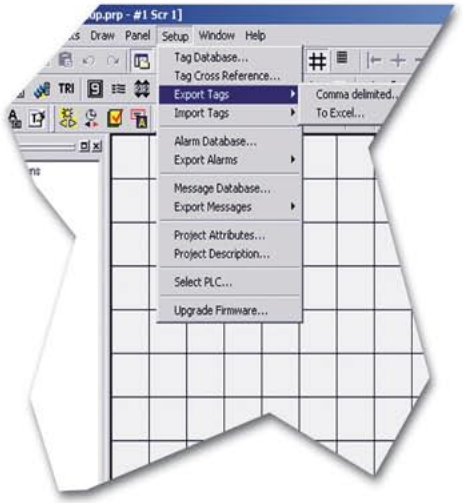
PowerPanel uses vector-based designs for the panel components & imported bitmaps.
This allows the user to scale an object without limits. There is no distortion!
This saves you from having to go to programs like Photoshop to scale the bitmaps.

In addition to distortion-free scaling, the vectorbased designs use PowerPanel memory very efficiently, allowing almost 500 screens of reasonable complexity to fit within 512 KB of memory.



Import/Export to Excel

PowerPanel allows you to export data from several objects to a PC network.
You can export data from Trend Graph, FIFO Tables and Alarm History.
You can also import tag and message data from an Excel Spreadsheet to the panel



Unique ON Line Programming

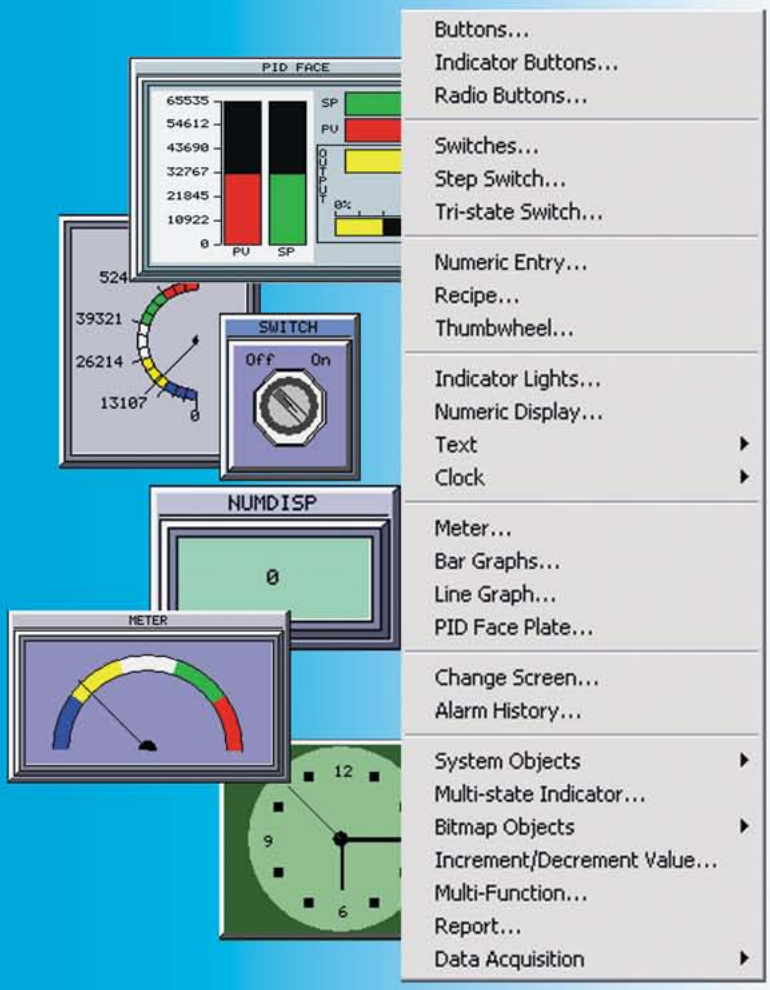
PowerPanel is the ONLY panel in the market that allows you to edit screens and collect PLC data while the panel is communicating with the controller.
This feature cuts down machine start-up and diagnostic time dramatically.

Programming over Ethernet

With our optional Ethernet to Serial adapter, you can program the PowerPanels over Ethernet running standard TCP/IP protocol.
You can even do the online programming over Ethernet, allowing you to make modifications to installed PowerPanels from the convenience of office (which may be half way across the world).

"you can do it in minutes"

Simple to use yet Feature Rich



Dazzling graphics & 256 colours

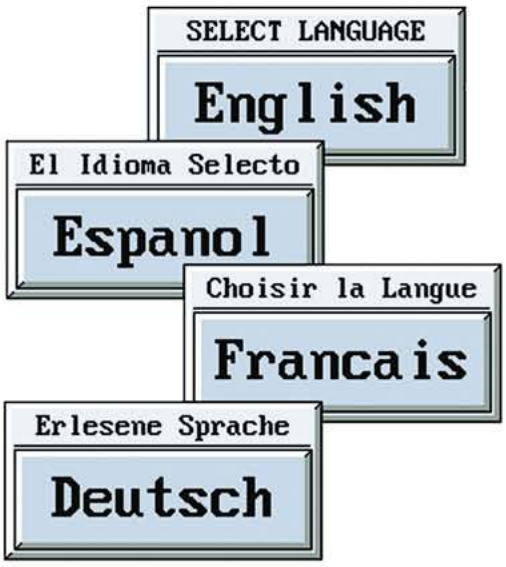
Though extremely easy to configure, these touch panels are much more than push-button & pilot-light replacements. These panels provide high-end panel components & compelling real-life graphics that you would normally expect only on an expensive PC-based software HMI. Additionally, with 128 colours, blinking abilities, and extensive bitmap support, the unit offers dazzling graphics that would please any discerning user.

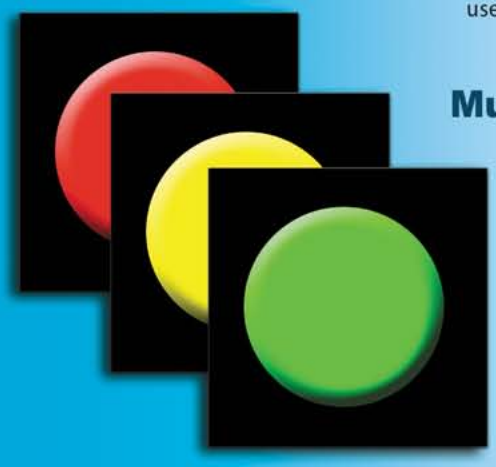
Pre-Built Panel Components

In addition to pushbuttons, indicator lights, numeric entry and displays, the PowerPanel offers panel components such as Analog Meters, PID Faceplates, Bar Graphs, Trend Graphs, Alarms, Recipes, Radio Buttons, Thumbwheels, a variety of Switches, and a rich library of Bitmaps. Also, the user can select from a palette of 128 rich colours for all these components. Each colour can be selected to blink in order to create components that will grab the operator's attention.

Multiple Languages

With PowerPanel's multiple language capabilities, you can now program the text for Panel components in up to 9-different languages. This means English reading operators can work with the panel in English, while the Spanish proficient operators can work in the Spanish language on the same panel. Also, with up to 9 different languages, OEMs exporting to other countries can develop programs to cover many of the commonly used languages.





Multi-state Indicator & Bitmap Buttons.

The multi-state indicators allow you to visualize process conditions, such as three states of a traffic light. PowerPanel also offer Bitmap -based multi-state indicators, where you can use up to 256 bitmaps to indicate 256 different conditions. The bitmaps allow you to design very intuitive screens.

"features so rich"

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Math-logic/Multi-function Buttons, Overlapping Objects

In addition to allowing the overlapping of touch objects, PowerPanel offers a sophisticated control, called the Multi-function button. As the name implies, this button allows you to perform multiple functions, including Mathematical and Logical operations, with the touch of one button. For example, you can set/reset multiple bits & transfer constants or variables or expressions to tags. Remarkably, this benefit allows a user to perform up to 20 operations with one button (and several buttons can be overlapped). PowerPanel also allows you to perform these Multiple functions under the PLC control- a very useful feature to offload mathematical & logical computations from the ladder logic to the panel.

Move

Allows to Set a bit, reset a bit, & move a constant or variable another variable.

Math

Absolute Value
Add
Division
Modulo
Multiplication
Negate
Round
Subtract

Logical

AND
NOT
OR
Shift Left
Shift Right
XOR

MULTI-FUNCTION

Alarms

PowerPanels offer a sophisticated Alarm system. It allows you to monitor events (bits), and values (registers). The values can be monitored for a variety of conditions (=, >, <, in/out of range). The alarms can be selectively displayed, printed and/or logged.

Flash Card & Flash-Firmware

G^2 & Q^2 PowerPanels use flash memory for it's firmware. This allows you to quickly upgrade the firmware in the field. You do not have to un-install the units, or send it to factory for any firmware upgrade.

In addition, PowerPanel supports an optional flashbased plug-in module. This module can be used to back up the user program and provide program portability. For example, OEMs can use the convenience of the plug-in module to distribute upgraded versions of their programs to customers and plant engineers can modify or upgrade programs with out the use of programming computers on the plant floor.

Connectivity

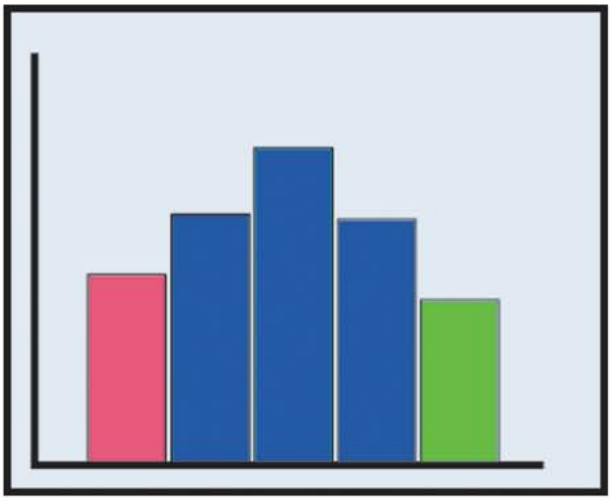
The PowerPanel has the ability to connect to a variety of PLCs. PowerPanels communicate with most major PLCs, such as Allen-Bradley, Modicon, Siemens, GE, Omron, & Mitsubishi. In addition to the serial drivers, PowerPanels communicate on DH+, Remote I/O, Modbus plus, Profibus, Ethernet/IP, DeviceNet networks, etc.

"you will want it now."

Much more than an Operator Panel

Data Acquisition.

The PowerPanel is the only product in its class that offers Data Acquisition and SPC capabilities.
Data can be acquired periodically, or based on an event.
The acquired data is stored in a FIFO (First-in-first-out) buffer of user programmed length. The data so acquired can be used for SPC & be read over a serial or Ethernet port.



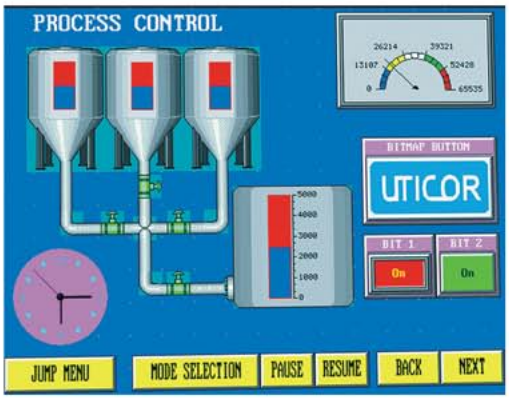
Statistical Process Control (SPC)

PowerPanel can perform a variety of Statistical computations on the data stored in the FIFO, which is useful for SPC (Statistical Process Control).
The PowerPanel performs and displays the following computations:

- Mean or X-bar
- Range
- Mode
- Median
- Min-Max
- Cpk

Machine Diagnostics

With its extensive graphics, multi-state bitmaps, alarming & messaging capabilities, PowerPanels provide graphical machine diagnostics to quickly trouble-shoot the operation of machine/process.



Monitor Tags

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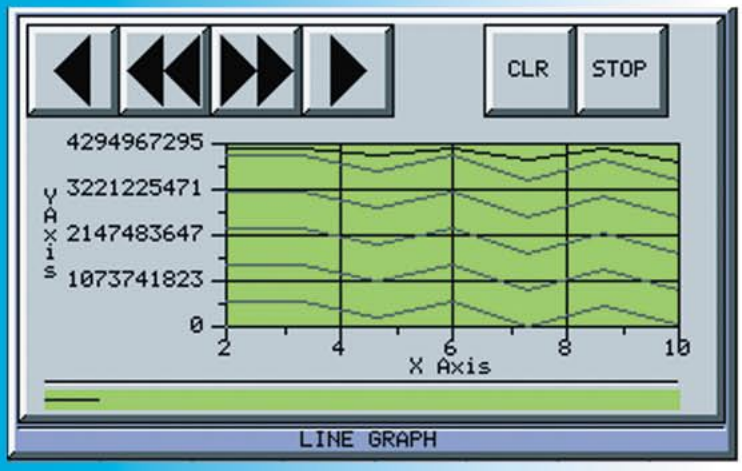

Line Graph

PowerPanel offers you a powerful trend or line graph feature. One trend graph object can track up to 6 variables. You can have any number of such objects in your program. Readings are time or event-based, and are taken even if the graph is not on a currently displayed screen.
In addition, the graphs allow you to scroll back & forth; moreover, the graph points can be read back by a PC, and exported to Excel spreadsheets.

Automatic Data Collection Utility

PowerPanel offers a utility to collect data from the panel. The utility that runs on a PC can collect data using Panels programming port.

"great value"

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Competitively Priced

In spite of high-end features, the PowerPanels are priced very competitively. With a high-end feature set, FREE software & upgrades, and competitive prices, the PowerPanels offer the best value in the market.

2 Year Warranty

PowerPanel's reliable design and Uticor's manufacturing quality allows us to offer a 2 year warranty making PowerPanel the only Touch panel product in the industry to offer you 2 years warranty.

FREE programming Software

With our FREE programming software, you don't have to worry about licensing. Everybody can have their own copies, and keep them current without worrying about the maintenance fees.

FREE Firmware Upgrades

Like the programming software, the upgrades to software and firmware are FREE to download from our website.

Customisation & Private Labelling

With hardware, firmware and programming software under one roof, Uticor is in a unique position to provide you customisation of PowerPanel products, including private labelling.

Replacement for Obsolete Panels & FREE Program Conversion

Uticor's PowerPanels are replacing several competing obsolete products. Uticor offers, in many cases, mechanically compatible units for competing products. That is, you can install powerpanels without making any change to your cutouts. Uticor even helps qualified customers in converting screens to PowerPanel screens FREE of charge.

Uticor Tough/HALT-HASS

Uticor Products go through HALT (Highly Accelerated Life Test) to identify and eliminate components/areas likely to fail prematurely. HALT-HASS process simulates product life over the next 20 years of operation.

"you will love it."

PowerPanel™ Specifications

G²Series	6" Mono 6" Color STN	8" Color STN	10" Color STN 10" Color TFT	15" Color TFT
Display	**Mono:** 4.72"x 3.5" 16 Grey Shades **Color:** 4.65" x 3.5" 128 Colors	6.65" x 5.024" 128 colors	8.31"x 6.22" 128 colors	12.02"x 9.02" 128 Colors
Screen Pixels	320 x 240	640 x 480		
Operating Temp	0-50 ∫C	0-45 ∫C	**10" STN:** 0-50 ∫C **10" TFT:** 0-55 ∫C	0-55 ∫C
Ext Dimensions	8.576"x6.800"x 2.800"	10.516" x 8.212" x 2.800"	13.168" x 10.124" x 3.035"	16.100"x12.336"x4.208"
Panel Cutout	7.54" x 5.64"	9.25" x 7.10"	11.93" x 8.94"	14.96"x11.68"
Display Brightness	**Mono:** 140 nits **Color:** 180 nits	90 nits	**10" STN:** 180 nits **10" TFT:** 200 nits	250 nits
Touch Screen	48 resistive cells (8 x 6 matrix)	192 resistive touch cells (16 x 12 matrix)		
Weight	**Mono:** 2.2 lbs **Color:** 2.3 lbs	2.9 lbs	4.75 lbs	8.9 lbs
Power Input	20-30VDC 15 Watts @ 24VDC	20-30VDC 16 Watts @ 24VDC	20-30VDC 18 Watts @ 24VDC	20-30VDC 33 Watts @ 24VDC
User Memory	512Kb System RAM			1Mb System RAM
RAM Modules	512Kb RAM Module, 1Mb RAM Module			
Flash Modules	512Kb Flash Module, 1Mb Flash Module, 2Mb Flash Module			

Q2 Series	6" Mono 6" Color STN"	8" Color STN 8" Color TFT	10" Color STN (AC & DC) 10" Color TFT (AC & DC)
Display	4.72" x 3.5" **Mono:** 16 Gray Shades **Color:** 128 Colors	6.65" x 5.024" 128 colors"	8.31" x 6.22" 128 colors
Screen Pixels	320 x 240	640 x 480	
Operating Temp	0-50 ∫C	**STN:** 0-45 ∫C **TFT:** 0-55 ∫C	0-50 ∫C
Ext Dimensions	7.688" x 5.824" x 2.2.209"	10790"x8.500" x 2.738"	**DC:** 12.480"x9.570"x 2.926" **AC:** 12.480"x9.570"x 3.375"
Panel Cutout	6.10" x 4.45"	10.20" x 7.92"	11.89" x 8.98"
Display Brightness	**Mono:** 140 nits **Color:** 180 nits	**STN:** 90 nits **TFT:** 200 nits	**STN:** 180 nits **TFT:** 200 nits
Touch Screen	192 resistive touch cells (16 x 12 matrix)		
Weight	2.95 lbs	3.54 lbs	**DC:** 4.72 lbs **AC:** 5.50 lbs
Power Input	20-30VDC 15 Watts @ 24VDC	20-30VDC 16 Watts @ 24VDC	**DC:** 20-30VDC 18 Watts @ 24VDC **AC:** 100-250VAC, 25 VA
User Memory	512Kb System RAM		
RAM Modules	---	512Kb RAM Module, 1Mb RAM Module	
Flash Modules	512Kb Flash Module, 1Mb Flash Module, 2Mb Flash Module		
Replacement:	**Mono:** Quick Panel Jr. **Color:** Quick Panel Jr.	Quick Panel 9" EL	Quick Panel 10" Panelview 900 & 1200"

	General Specifications for All Models
Num of Screens	Up to 999 (Limited by Memory)
Com Ports	**PLC Port:** RS232C, RS422A, RS485A, 15 pin D-Sub (Female) **Program Port:** RS232C, RS422A, RS485A, 9-pin D-Sub (Female)
Storage Temp	-20 to +60 ∫C
Humidity	10-95% R.H. Non-Condensing
Vibration	5-55 Hz, 2 G for 2 hrs in the X, Y, Z directions
Shock	10 G for under 12 ms in the X, Y, Z directions
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37, 90a-1974 SWC Level C Chattering Relay Test
Enclosure	NEMA 4, 4X (Indoor)
Agency Approvals	UL, CUL, CE

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