



*The
QuickPanel™
Family of
Touch Screen
Displays*



*A Wide Selection of Versatile, Color and
Monochrome, Programmable Touch Screens*



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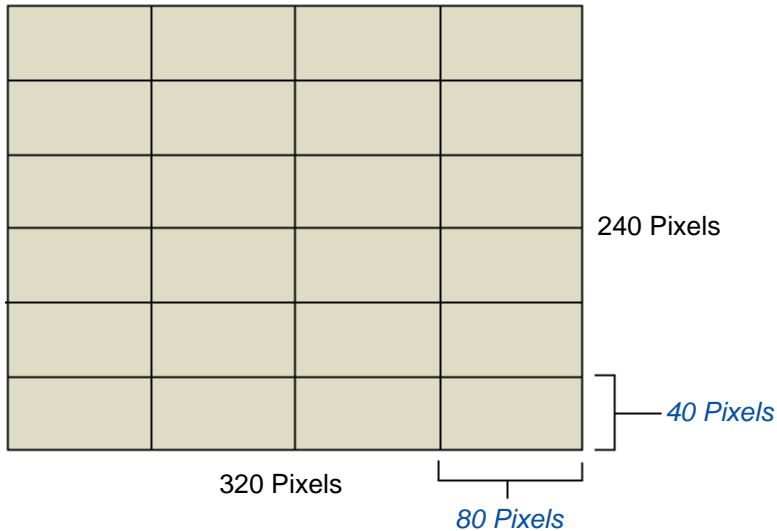
Convenient, Accessible, Flexible

When a process requires accessibility to controller resources, inputs, outputs, flags and registers, on a continuous basis, QuickPanel Touch Screens represent a convenient and economical link between the operator and the process.

Choose the One That's Right for your Application

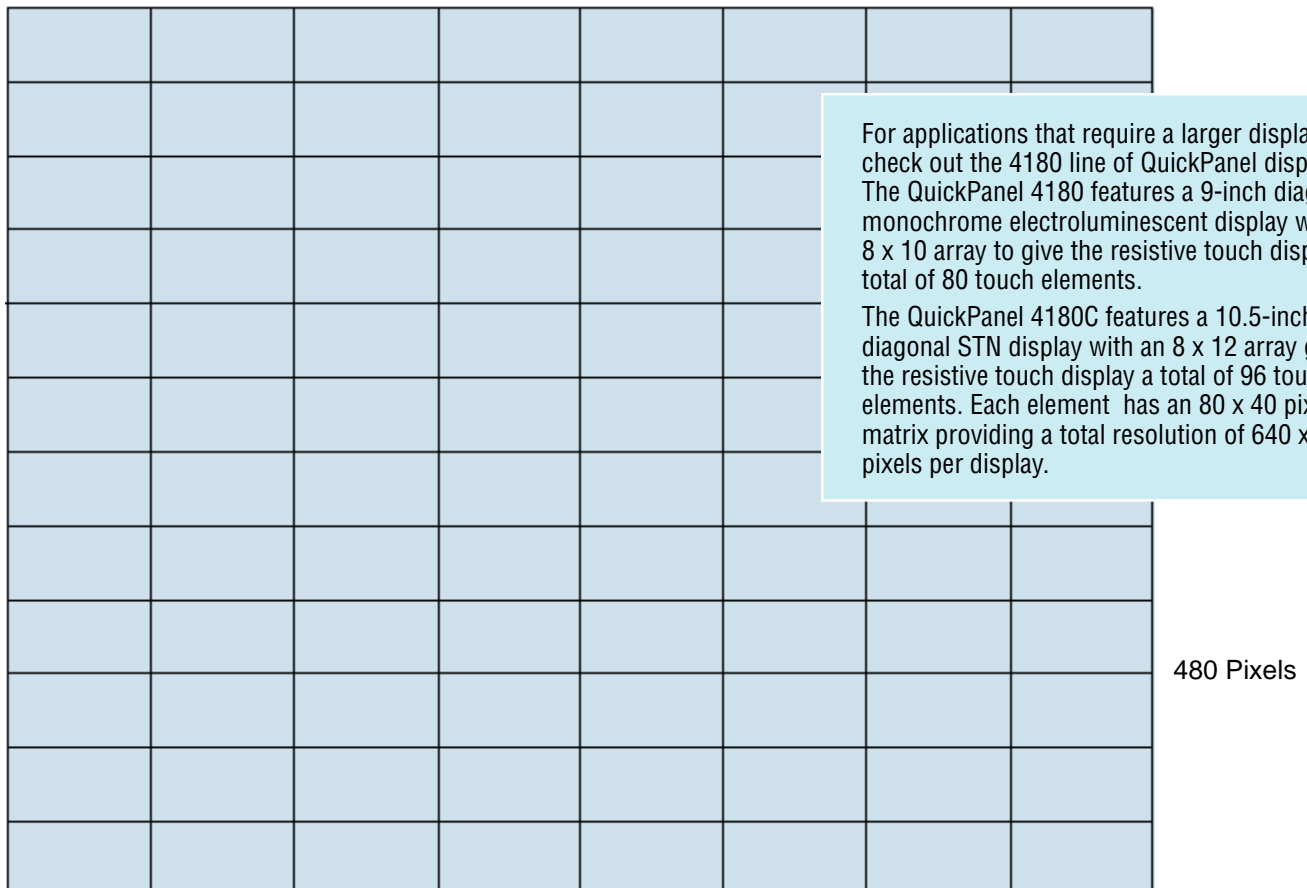
The 4170, 4170M-6 and 4176 monochrome displays and the 4170C, 4176C color displays interface with controllers by using Control Tech's Binary Communications Protocol. And the 4180 monochrome electroluminescent display and the 4180C color display interface with CTC controllers via RS-232 communications.

The QuickPanel Display



QuickPanel displays come in a wide range of sizes to fit every application. The 4176 and 4176C QuickPanel jr. models feature a 3 in. H x 4 in. W (5 in. diagonal) display and the 4170M-6, 4176 and 4176C QuickPanel models feature a 3.5 in. H x 4.6 in. W (6 in. diagonal) display. They all use a cold cathode tube for backlighting which has a life expectancy of 15,000 - 20,000 hours. Their 4 x 6 array gives the resistive touch display a total of 24 touch elements. Each element has an 80 x 40 pixels matrix, giving a total resolution of 320 x 240 pixels per display.

640 Pixels



For applications that require a larger display, check out the 4180 line of QuickPanel displays. The QuickPanel 4180 features a 9-inch diagonal monochrome electroluminescent display with an 8 x 10 array to give the resistive touch display a total of 80 touch elements.

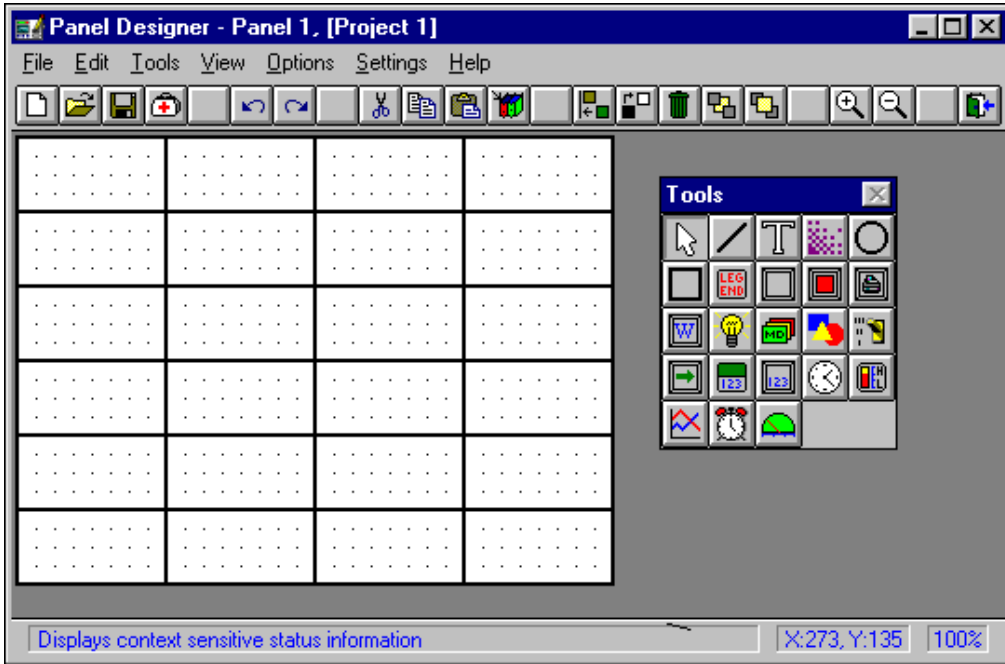
The QuickPanel 4180C features a 10.5-inch diagonal STN display with an 8 x 12 array giving the resistive touch display a total of 96 touch elements. Each element has an 80 x 40 pixel matrix providing a total resolution of 640 x 480 pixels per display.

Using QuickDesigner

You develop your interactive control screen using QuickDesigner, a Windows™ based editor. The tools provided can be assigned to numeric registers and flags in the CTC controller for real-time update on your screen.
























Flexible Design Tools

The QuickDesigner software package and software design tools, Bar Graphs, Multi-State Indicators, Numeric Data Entry and Illuminated Push Button Selector Switches, allow the designer to shift the operator interface load from the controller to the QuickPanel Touch Screen, dramatically reducing development time.



- ▼ To configure the control screens, select the desired control from the tool box and drag it onto the configuration screen. You can move, resize, set operator parameters, and assign controller resources to each control. The number and type of controls used dictate the maximum number allowed within an application. The QuickPanel accommodates approximately 200 controls per application. Up to 24 controls may be used per screen. When all the screens are configured you can download them to the QuickPanel's Flash EPROM for nonvolatile storage.

QuickDesigner Toolbox

| | | | | | |
|--|-----------------|---|-----------------|--|-------------------------|
|  | Pointer |  | Polyline |  | Text tool |
|  | Bitmap tool |  | Circle |  | Rectangle |
|  | Legend plate |  | Push button |  | Illuminated push button |
|  | Print button |  | Word button |  | Pilot light |
|  | Message display |  | Image display |  | Selector Switch |
|  | Goto panel |  | Numeric display |  | Numeric entry |
|  | Time display |  | Bar graph |  | Trend display |
|  | Alarms |  | Analog meter | | |

QuickPanel Specifications

| Electrical Specifications | 4170 | 4176 | 4180 | 4170M - 6 |
|----------------------------------|---|---|----------------------------|----------------------------|
| Operating voltage range | 20.4 to 27.6 VDC | 20.4 to 27.6 VDC | 85 VAC to 132 VAC | 20.4 to 27.6 VDC |
| Power consumption | 12 Watts Max (4170) 15 Watts Max (4170C) | 12 Watts Max (4176) 15 Watts Max (4176C) | 50 VA Max | 12 Watts Max |
| Power failure immunity | 20ms maximum | 20ms maximum | 20ms maximum | 20ms maximum |
| Withstanding voltage | 1500 VAC (10ma max, 1 min) | 1500 VAC (10ma max, 1 min) | 1500 VAC (10ma max, 1 min) | 1500 VAC (10ma max, 1 min) |
| Insulation | 10 M W at 500VDC | 10 M W at 500VDC | 10 M W at 500VDC | 10 M W at 500VDC |

Environmental Specifications

| | | | | |
|--|---|---|---|------------------------|
| Operating temperature | 0°C to 50 °C (4170) 0°C to 45 °C (4170C) | 0°C to 50 °C (4176) 0°C to 45 °C (4176C) | 0°C to 50 °C (4180) 0°C to 45 °C (4180C) | 0°C to 50 °C |
| Storage temperature | -20°C to 60°C | -20°C to 60°C | -10°C to 60°C | -10°C to 60°C |
| Operating humidity non-condensing | 20% to 85% RH | 20% to 85% RH | 20% to 85% RH (4180) 30% to 85% RH (4180C) | 30% to 85% RH |
| Storage humidity non-condensing | 5% to 85% RH | 5% to 85% RH | 5% to 85% RH | 5% to 85% RH |
| Vibration (2G on each of X, Y, Z 30 min) | 10 Hz to 25 Hz | 10 Hz to 25 Hz | 10 Hz to 25 Hz | 10 Hz to 25 Hz |
| Noise immunity | 1200 V (p-p) 1m pulse | 1200 V (p-p) 1m pulse | 1200 V (p-p) 1ms pulse | 1200 V (p-p) 1ms pulse |
| Ratings (NEMA 4x option) | NEMA 12 panel mount | NEMA 12 panel mount | IP65F, NEMA#250, Type 4/13 | NEMA 12 panel mount |

Mechanical Specifications

| | | | | |
|------------------------|-------------------------|--------------------------|---|--------------------------|
| Dimensions (in inches) | 4.75 H x 6.5 W x 2.75 D | 5.43 H x 6.71 W x 2.24 D | 10.79 H x 8.5 W x 1.93 D (4180) 12.48 H x 8.5 W x 3.05 D (4180C) | 6.30 H x 8.27 W x 2.48 D |
| Weight | 1.54 lbs | 1.54 lbs | 4.4 lbs. (4180) 6.6 lbs. (4180C) | 1.65 lbs |
| Cooling System | Natural air convection | Natural air convection | Natural air convection | Natural air convection |
| Installation | Front mount | Front mount | Front mount | Front mount |

Display

| | | | | |
|--------------------------|--------------------|--------------------|--|-------------------------|
| Display type | LCD STN (4170C) | LCD STN (4176C) | Monochrome Electroluminescent STN (4180C) | LCD |
| Screen resolution | 320 x 240 pixels | 320 x 240 pixels | 640 x 480pixels | 320 x 240 pixels |
| Viewing area (in inches) | 4 W x 3 H, 5 diag | 5 W x 4 H, 6 diag | 7.68 W x 4.8H, 9 diag (4180) 8.48 W x 6.32 H, 10.5 diag (4180C) | 4.5 W x 3.5 H, 5.7 diag |

Touch Panel

| | | | | |
|------------------------|-------------|-------------|---|-------------|
| Touch panel resolution | 15 W x 11 H | 15 W x 11 H | 32 W x 20 H (4180) 32 W x 24 H (4180C) | 15 W x 11 H |
|------------------------|-------------|-------------|---|-------------|

Part Numbers and Accessories

- 4170: QUICKPANEL jr. 5" Touch Screen (Monochrome)
- 4170C: QUICKPANEL jr. 5" Touch Screen (Color)
- 4170M - 6: QUICKPANEL 6" Mini Touch Screen (Monochrome)
- 4176: QUICKPANEL jr. 6" Touch Screen (Monochrome)
- 4176C: QUICKPANEL jr. 6" Touch Screen (Color)
- 4180: QUICKPANEL 9" Touch Screen (Monochrome)
- 4180C: QUICKPANEL 10.5" Touch Screen (Color)
- 4170PC: QUICKDESIGNER Software package (One time purchase)
- 4171: Programming Cable
- 2880M: RS-232 Adapter (For communicating with controller)
- 2881: Modular Jack Cable (5 feet)

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