



*The
QuickPanel™
Family of
Touch Screen
Displays*



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



Control Technology Corporation
25 South Street, Hopkinton, MA 01748
508-435-9595 • Fax: 508-435-2373
800-282-5008
info@ctc-control.com
www.ctc-control.com

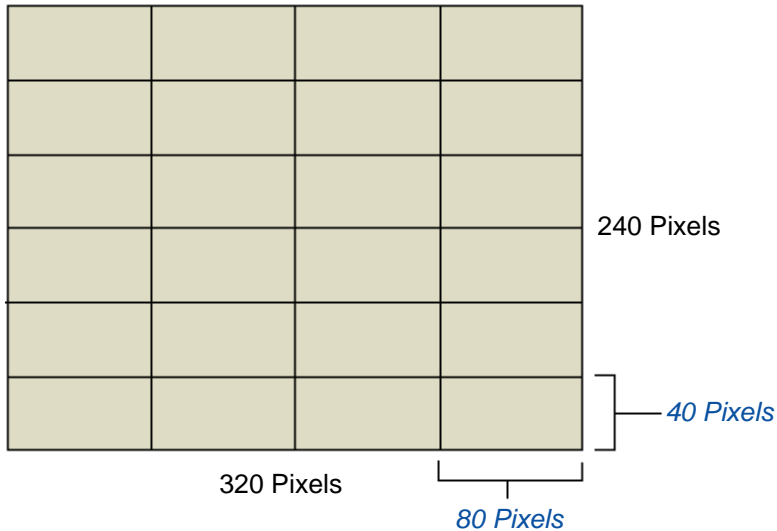
Convenient, Accessible, Flexible

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

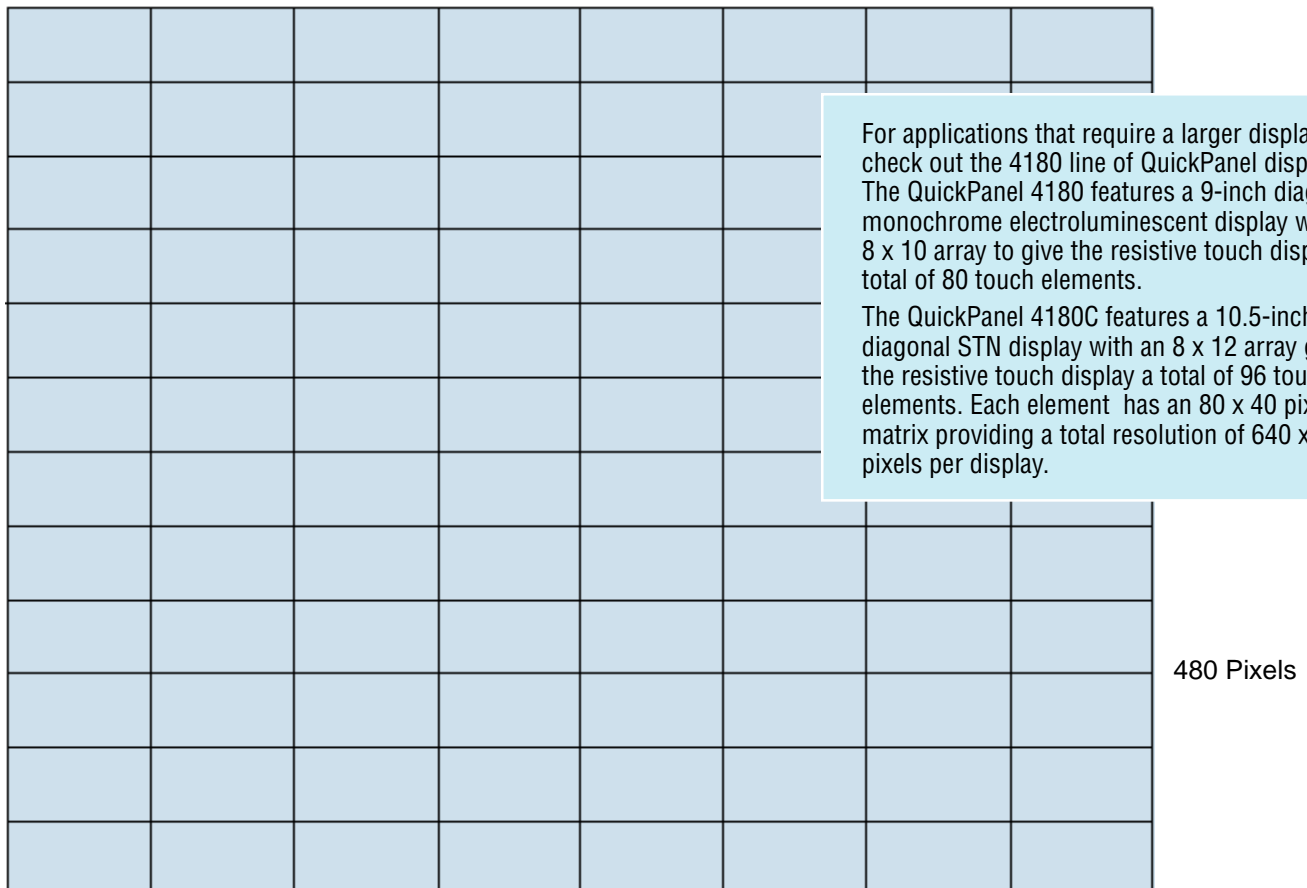
The 4170, 4170M-6 and 4176 monochrome displays and the 4170C, 4176C color displays interface with controllers by using Control Tech's Binary Communications Protocol. And the 4180 monochrome electroluminescent display and the 4180C color display interface with CTC controllers via RS-232 communications.

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.

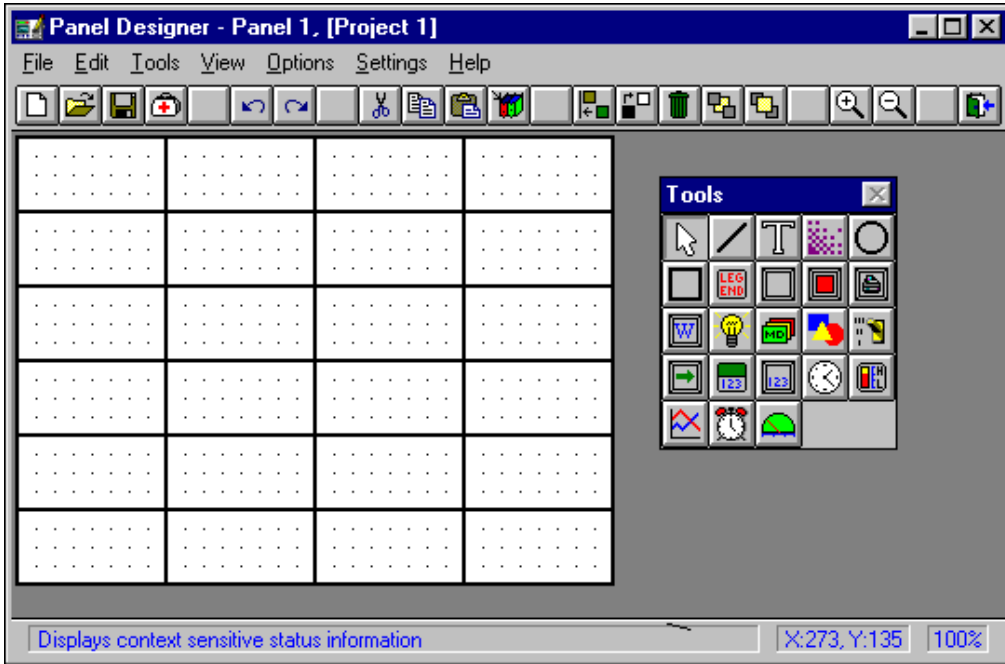
The QuickPanel 4180C features a 10.5-inch diagonal STN display with an 8 x 12 array giving the resistive touch display a total of 96 touch elements. Each element has an 80 x 40 pixel matrix providing a total resolution of 640 x 480 pixels per display.

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)

QuickPanel is a Trademark of
Control Technology Corporation.
Printed in USA.

4/01 Copyright 2001 Control Technology Corp.



Control Technology Corporation

25 South Street, Hopkinton, MA 01748

508-435-9595 | Fax: 508-435-2373

800-282-5008

info@ctc-control.com • www.ctc-control.com