Model 4273T

Color Graphic Display Panel and Touch Screen

Features

- Bright 5.6" TFT 256 Color Display

- Analog Touch Screen Interface

- Connects to PLC's via Single Cable to Programming Port

- FREE Design Mode, Windows™ based Setup Software Included

- Intel® Xscale PXA255 200MHz processor

- Built-in Recipe memory and Real Time Clock

LCD with Touch Panel

The 4273T is a touch screen interface for programmable controllers. No special PLC programming is required for data access. The unit displays pictorial information, data and messages that are preloaded into it using a Personal Computer. Touch screen areas can be programmed to perform various functions. Free setup software for configuring the 4273T is included with each unit. The Easy Builder Screen Editor offers fast and intuitive configuration. This simplifies application design while reducing development costs. The 4273T is rated NEMA4/IP65 from the front when mounted properly. It is designed for industrial working environments.

Connect directly to most PLCs

The 4273T uses each PLC's communication protocol to read or write data. It supports RS232 and RS485 for direct connection to PLCs with a single cable. It does not require the PLC to run any special program for data communication. This allows the unit to be used with existing systems. If desired, the unit can be programmed to work in conjunction with the PLC, responding to PLC commands. This brings out the PLC's full potential and improves operator efficiency. The 4273T allows the user to optimize communications by selecting the data block size that is uploaded with each communication to the PLC. The EasyWindow utility provided with EasyBuilder is used to further monitor and tweak PLC communication efficiencies.

General Specifications

Input power	23-25 VDC, 500 mA @ 24VDC
CE	Complies with EN50081-2 and EN50082-2 standards
EMI	Complies with FCC Class A (Ferrite core required when using unshielded power supply wires)
Isolation resistance	Exceeds 50 M at 500VDC
Vibration endurance	10 to 25 Hz (X,Y,Z direction 2G 30 minutes)
Protection structure	NEMA 4 / IP65 front panel (when mounted with gasket seal)
Temperature	Operating: 32 to 113 °F (0 to 45 °C); Storage: -13 to 158 °F (-25 to 70°C)
Operation humidity	10 to 90% RH Non Condensing
Enclosure	Plastic: Polybutylene Terephthalate (PBT) and Polycarbonate(PC)

Hardware Specification 730T/730T-E

LCD Display	5.6" TFT 256 color
Contrast Ratio	150:1
Brightness cd/m2	500
Back light	CCFLx1, MTBF 30,000 hr
Resolution pixels	320(W) x 234(H)
Viewing Angle	Top 20°; Bottom 40°; Right 50°; Left 50°;
Pixel size	0.118(W) x 0.362 (H) mm
Display area (mm)	120(W) x 90(H)
Touch panel	4 wire analog resistive type
Touch granularity	1.5mm grid
Touch Feedback	Beeper and or Graphic Indicator
Surface hardness	4H
Processor	32 bit RISC PXA255 200MHz
Flash Memory	2MB flash ROM
Compact Flash Slot	(-E Option) Used for project transfers only
System Memory	4MB DRAM
Battery Held Memory	128kB with Y2K compliant Real Time Clock/Calendar
Serial ports	1 RS-232 (Controller port), 1 RS-485 (Controller port) and 1 RS-232 485 (PC port)
Ethernet port	(-E Option) RJ-45, 8 wire (10 BaseT) TCP/IP
System diagnostic	Watch dog timer, power failure detection
Dimensions	H x W x D inches (H x W x D) mm
Bezel:	5.90 x 8.00 x 2.00 (150 x 204 x 48)
Cutout:	5.43 x 7.56 (138 x 192)
Weight	Approx. 1.9 lbs. (0.85 kg)

EasyBuilder Software Specification

Screen editor	**EasyBuilder Version 2.7.0 or later** (requires Windows 98 / ME / 2000 / XP)
No. of window	1 ~ 1999, limited by memory
No. of object	Up to 500 per window, limited by memory
Text strings	limited only by memory
Bitmap graphics	256 KB per graphic, limited by memory
Support PLC	Most popular PLC's
Macro scripts	Up to 256 Macro scripts per project, limited by memory

Computer requirements include at least a Pentium 90Mhz PC, 16MB RAM, 10MB available hard disk space, minimum 800x600 resolution VGA, and one available RS-232 serial port.

EasyBuilder has a complete set of drawing tools as well as the ability to import and place bitmaps. Summary of EasyBuilder Objects
Bit Lamp – Place an indicator that is bit triggered
Word Lamp – Place an indicator that is word triggered
Set Bit – Set a bit on a button press, button hold, window change, backlight activation or data entry.
Set Word – Set a word on a button press, button hold, window change, backlight activation or data entry.
Toggle Switch – Toggle a bit
MultiState Switch – Increment/Decrement a word
Function Button – Perform a system operation
Numeric Input / Display – Change/Display digital data
ASCII Input / Display – Change/Display alphanumeric data
X,Y Move Animation – Move an object via pixel coordinates
Spot Move Animation – Move an object on a predefined path
Direct Window – Popup Window on Bit status change
Indirect Window – Popup Window depending on Word's value
Alarm Display – display predefined text strings in response to bit changes
Trend Graph – Plots active data on a trend
XY Plot – Plots active data on a grid BarGraph
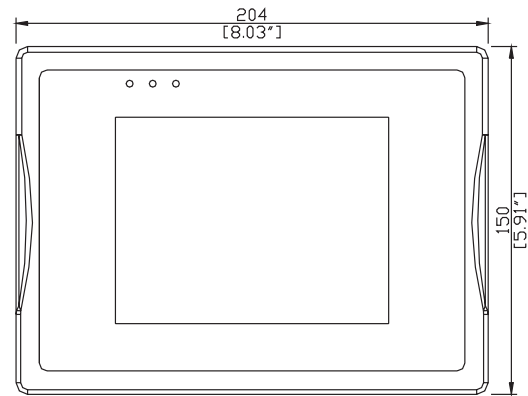**Meter** – Display one of 4 different types of meters
Scrolling Alarm – display predefined text strings in response to bit changes
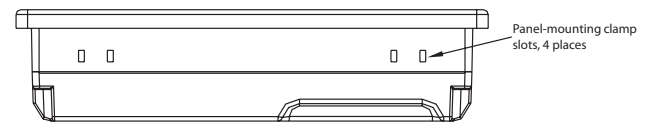**Event Display** – display and log predefined text strings in response to bit or word changes
Recipe Transfer – move data to and from the PLC
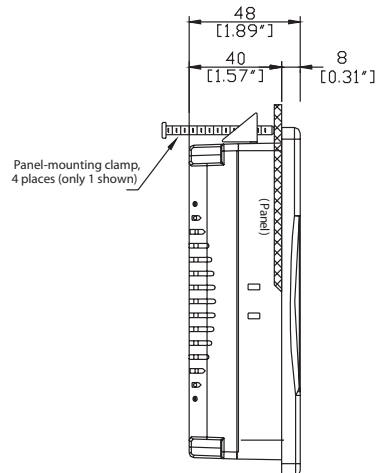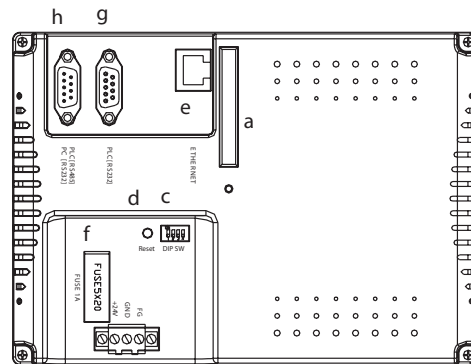**PLC Controls:** Change window, Backlight control, Macro Execution, Data Transfer

Dimensions

Front View

Bottom View

Side View

Rear View

a.	CompactFlash? slot	e.	Ethernet port
b.	Power terminal	f.	Fuse
c.	DIP Switch	g.	PLC [RS-232]
d.	Reset button	h.	PLC [RS-485]/PC[RS232]

Ordering Information:

Part Number	Description
4273T	Graphic Interface with 5.6" Color LCD display and Touchscreen, Real Time Clock.
4273T-E	Graphic Interface with 5.6" Color LCD display and Touchscreen, Real Time Clock with Ethernet and Compact Flash options.