

EZTOUCH PANELS OVERVIEW

Part Numbering



Display Color:
C: Color
M: Monochrome

Display Size:
6: 6"
8: 8"
10: 10"
15: 15"

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Display Type:
S: STN
T: TFT

PLC Drivers / Memory:

F: Full; all drivers; expandable
K: Koyo and Think & Do drivers; expandable
R: Reduced; all drivers; not expandable

Preinstalled Option Card:

D: DeviceNet
E: EtherNet/IP
H: Data Highway Plus (DH+)
M: Modbus Plus
P: Profibus-DP
T: Modbus TCP/IP

Bezel:

<none>: NEMA 4/4x indoor
Slim bezel except 6"
S: FDA, NEMA 1
Slim bezel

Features

- Pre-built panel components for easy screen design
- Screen objects such as Pushbutton, Selector Switch, Throw Switch, Thumbwheel Switch, Meters, PID Faceplates, Analog/Digital Clock, Dynamic Bitmaps, Multi-state Bitmaps, Line Graphs, Bar Graphs, etc.
- Flash memory-based design for easy firmware upgrades
- Field expandable user RAM
- Optional non-volatile flash memory card for user program backup
- Color models support 128 colors
- 16 shades of gray on monochrome models
- Multiple languages (up to 9)
- Two communication ports (one programming, one serial communications)
- Up to 999 screens, depending on complexity
- Built-in clock and calendar
- Built-in soft keypad for numeric and alphanumeric entry
- Password protection for almost every touch object
- Passwords for up to eight user groups
- 16 levels of undo and redo
- Import bitmaps
- 40-character tag names

Introduction

The EZTouch panels provide a graphical interface designed to interchange and display graphical data from a PLC by merely touching the screen. You could virtually replace every pushbutton, switch, meter, and other peripheral device with one EZTouch panel. EZ-TOUCHEDIT, the configuration software makes these touch panels very easy to set up and program.

Overview

EZTouch panels are fully programmable and provide power and flexibility through a vast set of features. The displays are available in either monochrome (16 gray shades) or full color. Mono displays are only available with a 6" screen. The color units are available in 6", 8", 10" or 15" versions. See the table to the right for part numbers and descriptions.

Getting started

Installing the software and configuring the EZTouch panel is easy to do. You will only need the following items to successfully connect and configure the panel:

- EZTouch Panel
- 24 VDC power supply (min. 1.5A, switching)
- Programming cable
- PLC interface cable
- PC
- EZTouch Programming Software

Available models

The following table provides all of the models currently available. For more detailed EZTouch information, see the specifications chart later in this section.

Part Number	Description
EZ-S6M-F	6" monochrome, full feature, NEMA 4/4x 512K memory*
EZ-S6M-FH	6" monochrome, Data Highway Plus interface/remote I/O, full feature, 512K memory*, NEMA 4/4x
EZ-S6M-FS	6" monochrome, slim bezel, full feature, 512K memory*, NEMA 4/4x
EZ-S6M-FSH	6" monochrome, slim bezel, Data Highway Plus interface/remote I/O, full feature, 512K memory*, FDA, NEMA 1
EZ-S6M-R	6" monochrome, 256K memory (not expandable), NEMA 4/4x
EZ-S6M-RS	6" monochrome, slim bezel, 256K memory (not expandable), FDA, NEMA 1
EZ-S6C-F	6" color, full feature, 512K memory*, NEMA 4/4x
EZ-S6C-FH	6" color, Data Highway Plus interface/remote I/O, full feature, 512K memory*, NEMA 4/4x
EZ-S6C-FS	6" color, slim bezel, full feature, 512K memory*, FDA, NEMA 1
EZ-S6C-FSH	6" color slim bezel, Data Highway Plus interface/remote I/O, full feature, 512K memory*, FDA, NEMA 1
EZ-S6C-FST	6" color, slim bezel, ModbusTCP/IP interface, full feature, 512K memory*, FDA, NEMA 1
EZ-S6C-K	6" color, Koyo serial drivers only, full feature, 512K memory* NEMA 4/4x
EZ-S6C-KS	6" color slim bezel, Koyo serial drivers only, full feature, 512K memory*, FDA, NEMA 1
EZ-S8C-F	8" color, slim bezel, full feature, 512K memory*, NEMA 4/4x
EZ-S8C-FH	8" color, full feature, Data Highway Plus interface/remote I/O. 512K memory*, NEMA 4/4x
EZ-S8C-FS	8" color, slim bezel, full feature, 512K memory*, FDA, NEMA 1
EZ-S8C-FSH	8" color, slim bezel, Data Highway Plus interface/remote I/O, 512K memory*, FDA, NEMA 1
EZ-S8C-FST	8" color, slim bezel Modbus TCP/IP, full feature, 512K memory*, FDA, NEMA 1
EZ-T10C-F	10" TFT color, full feature 512K memory*, NEMA 4/4x
EZ-T10C-FH	10" TFT color, Data Highway Plus interface/remote I/O. Full feature, 512K memory*, NEMA 4/4x
EZ-T10C-FS	10" TFT color, slim bezel, full feature, 512K memory*, FDA, NEMA 1

*Note: Memory is expandable using optional RAM memory cards.

Also, Flash memory cards are available for transfer of programs and program backup.

Part Number	Description
EZ-T10C-FSD	10" TFT color, slim bezel, DeviceNet, 512K memory*, FDA, NEMA 1
EZ-T10C-FSE	10" TFT color, slim bezel, Ethernet/IP, 512K memory*, FDA, NEMA 1
EZ-T10C-FSH	10" TFT color, slim bezel, Data Highway Plus interface/remote I/O, 512K memory*, FDA, NEMA 1
EZ-T10C-FSM	10" TFT color, slim bezel, Modbus Plus, 512K memory*, FDA, NEMA 1
EZ-T10C-FSP	10" TFT color, slim bezel, Profibus DP, 512K memory*, FDA, NEMA 1
EZ-T10C-FST	10" TFT color, slim bezel, Modbus TCP/IP, full feature, 512K memory*, FDA, NEMA 1
EZ-T15C-FS	15" TFT color, slim bezel, full feature, 1MB memory*, FDA, NEMA 1
EZ-T15C-FSD	15" TFT color, slim bezel, DeviceNet, 1MB memory*, FDA, NEMA 1
EZ-T15C-FSE	15" TFT color, slim bezel, Ethernet/IP model. 1MB memory*, FDA, NEMA 1
EZ-T15C-FSH	15" TFT color, slim bezel, Data Highway Plus interface/remote I/O, 1MB memory*, FDA, NEMA 1
EZ-T15C-FSM	15" TFT color, slim bezel, Modbus Plus, 1MB memory*, FDA, NEMA 1
EZ-T15C-FSP	15" TFT color, slim bezel, Profibus DP, 1MB memory*, FDA, NEMA 1
EZ-T15C-FST	15" TFT color, slim bezel, Modbus TCP/IP, full feature, 1MB memory*, FDA, NEMA 1

EZTOUCH PANEL OVERVIEW

Compatibility

One feature of the EZTouch panel is its connectivity to many different PLC types. In addition to *DirectLOGIC* PLCs, if you are using certain Allen-Bradley, GE, Mitsubishi, Omron, Modicon, or Siemens PLCs, you will have no problems connecting the EZTouch panel. Check the table below to verify that your PLC is supported.

Networking

The EZTouch panels can also communicate via various types of networking protocols using the applicable network card.

The networks currently supported are as follows:

- Ethernet (EZ-ETHERNET) works with **DirectLOGIC** PLCs only
- Data Highway Plus/Remote IO

- DeviceNet (10" and 15" slim bezels only)
- Ethernet/IP (10" and 15" slim bezels only)
- MODBUS Plus (10" and 15" slim bezels only)
- Profibus DP (10" and 15" slim bezels only)
- MODBUS TCP/IP (EZ-ETHERPLUS option card or pre-installed)

The Ethernet network card is purchased separately, while the DH+ and other network models are ordered as a complete unit. Please see the Selection Guide tables on subsequent pages for applicable part numbers.

Easy installation

There are three basic steps to installing an EZTouch panel:

1. Mounting
2. Connections and wiring
3. Communications setup

Mounting

The EZTouch panel is a front-panel mount unit. Mounting requires a panel cutout and either drilling holes for mounting screws or the installation of add-on DIN clips to secure the panel to the mounting area. For complete information, refer to the dimensions and installation section .

Connections and wiring

Once the EZTouch panel is mounted, you can select the PLC protocol type and connect the unit. For a complete description of the EZTouch panel ports and all available cables, please refer to the wiring and connections section .

Communications setup







The EZTouch panel has user-defined communication settings and is shipped with default parameters. Verify that the settings match your needs.

Support

Other than our desk reference, there are two additional sources for more information about EZ Touch panels. Our Web site contains all of the information in this section, any new feature releases, tech support, plus much more. Please visit our Web site at www.automationdirect.com. The other source for information is our Technical Support group. If you have any questions for which you can't find an answer, give us a call from 9 a.m. to 6 p.m. EST, Monday - Friday, at 770-844-4200 and we will be glad to assist you.

PLC Compatibility Table			
PLC /Network	Model	Protocols	
Allen-Bradley	MicroLogix 1000/1200/1500, SLC 500, 5/01, /02, /03	DH485/AIC/AIC+	
	MicroLogix 1000,1200 and 1500	DF1 Half Duplex; DF1 Full Duplex	
	SLC 5/03, /04, /05, PLC-5 (w/DF1)	DF1 Half Duplex; DF1 Full Duplex	
	SLC5/04, PLCs	DH+ (Option Card)	
	PLC2,3 and 5	Remote I/O (w/DH+ Option Card)	
DeviceNet	DeviceNet I/O	DeviceNet I/O	
Ethernet/IP	Ethernet/IP (Control-Logix)	Ethernet/IP (Option Card)	
Modbus TCP/IP	Modbus TCP/IP devices	Modbus TCP/IP/EZ-ETHERPLUS (Option Card)	
GE	90/30 and 90/70	SNPX	
Mitsubishi	FX Series (all)	FX, Direct	
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU: 311-xx, 411-xx, 512-xx, 612-xx	Modbus RTU	
	984 Series, Quantum Series	Modbus Plus (Option card)	
Omron	C200, C500	Host Link	
Profibus	Profibus-DP	Profibus-DP (Option Card)	
Siemens	S7 300/400 PLCs, HMI MPI Adapter	3964R protocol	
DirectLOGIC	DL05/DL06	K-Sequence	
		DirectNet	
	H0-ECOM	MODBUS (Koyo addressing)	
		EZ ETHERNET option card	
	DL105	K-Sequence	
		DirectNet	
	DL205	D2-230	K-Sequence
		D2-240	K-Sequence
		D2-250/D2-250-1/D2-260	DirectNet
			MODBUS (Koyo addressing)
		D2-240/D2-250-1/D2-260 DCM	DirectNet
		H2-ECOM	EZ-ETHERNET option card
	DL305	D3-330/330P	DirectNet
		D3-340	DirectNet
		D3-350	K-Sequence
			DirectNet
		D3-350 DCM	MODBUS (Koyo addressing)
			DirectNet
	DL405	D4-430	K-Sequence
		D4-440	DirectNet
			K-Sequence
		D4-450	DirectNet
			K-Sequence
		All with DCM	DirectNet
			MODBUS (Koyo addressing)
	H4-ECOM	EZ-ETHERNET option card	
	H2-WinPLC (Think & Do) V5.2 or later, check for version compatibility	Think & Do MODBUS RTU (serial port)	
	H2/H4 EBC,T1H-EBC	K-Sequence (serial port)	




EZTOUCH SELECTION GUIDE AND SPECIFICATIONS

EZTouch Panel Model Specifications						
Part Number	EZ-S6M-R	EZ-S6M-RS	EZ-S6M-F*	EZ-S6M-FS*	EZ-S6C-K	EZ-S6C-KS
						
Price	<--->	<--->	<--->	<--->	<--->	<--->
Specification	6" monochrome reduced feature	6" slim bezel monochrome reduced feature	6" monochrome full feature	6" slim bezel monochrome full feature	6" color Koyo only	6" slim bezel color Koyo only
Enclosure	NEMA 4, 4X (indoor)	NEMA 1, FDA compliant	NEMA 4, 4X (indoor)	NEMA 1, FDA compliant	NEMA 4, 4X (indoor)	NEMA 1, FDA compliant
Display Type	5.7" STN (16 shades of gray)				5.7" STN (128-color palette)	
Display Size (Viewing Area)	4.72"x3.5" (119.4x88.9 mm)				4.65"x3.5" (118.1x88.9 mm)	
Screen Pixels	320x240					
Display Brightness	140 nits				180 nits	
Touch Screen	48 resistive touch cells (8x6)			192 resistive touch cells(16x12)	48 resistive touch cells (8x6)	192 resistive touch cells (16x12)
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)					
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended					
Power Consumption	13 watts @ 24VDC				15 watts @ 24VDC	
Agency Approval	UL, CUL, CE					
Operating Temperature	0 to 45°C (32 to 113°F)					
Storage Temperature	-20 to 60°C (-4 to 140°F)				-25 to 60°C (-13 to 140°F)	
Humidity	10-95% RH, noncondensing					
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test					
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)					
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)					
Vibration	5 to 55Hz 2G for 2 hours in the X, Y, and Z axes					
Shock	10G for under 12ms in the X, Y, and Z axes					
User Memory	256KB System RAM memory only		512KB system RAM			
			Expansion memory: 512KB option RAM card (EZ-RAM-1) or 1MB RAM card (EZ-RAM-2)			
			Backup/transferable memory: 512KB flash card (EZ-FLASH-1), 1MB flash card (EZ-FLASH-2), or 2MB flash card (EZ-FLASH-3)			
Number of Screens	Up to 999 limited by memory					
Real-time Clock	Built into panel (PLC clock is still accessible if available)					
Screen Saver	Backlight off					
Communications	PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232/RS-422/RS-485A 9 pin D-sub (female)					
			DH+ Port: DH+ option board 25-pin connector (Female) Direct LOGIC Ethernet: (EZ-Ethernet)** Option board (RJ45)	DH+ Port: DH+ option board 25-pin connector (Female) Direct LOGIC Ethernet: (EZ-Ethernet)** Option board (RJ45)		
External Dimensions	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145x8.048x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145x8.048x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145x8.048x2.433" (156.078x204.407x51.786mm)
Weight	1.4 lb	1.7 lb	1.4 lb	1.7 lb	1.4 lb	1.7 lb

* denotes available with built-in Data Highway Plus interface card (add "H" to part number).

** sold separately



EZTOUCH SELECTION GUIDE AND SPECIFICATIONS

EZTouch Panel Specifications - NEMA 4, 4X (indoor)			
Part Number	EZ-S6C-F*	EZ-S8C-F*	EZ-T10C-F*
			
Price	<-->	<-->	<-->
Specification	6" color full feature	8" color, slim bezel, full feature	10" color, slim bezel, full feature
Enclosure	NEMA 4, 4X (indoor)		
Display Type	5.7" STN (128-color palette)	8.2" STN (128-color palette)	10.4" TFT (128-color palette)
Display Size (Viewing Area)	4.65"x3.5" (118.1x88.9mm)	6.65"x5.024" (168.9x127.61mm)	8.31"x6.22" (211.07x158mm)
Screen Pixels	320x240		640x480
Display Brightness	180 nits	90 nits	200 nits
Touch Screen	48 resistive touch cells (8x6)	192 resistive touch cells (16x12)	
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)		
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended		
Power Consumption	15 watts @ 24VDC	16 watts @ 24VDC	18 watts @ 24VDC
Agency Approval	UL, CUL, CE		
Operating Temperature	0 to 45°C (32 to 113°F)	0 to 40°C (32 to 104°F)	0 to 50°C (32 to 122°F)
Storage Temperature	-25 to 60°C (-13 to 140°F)	-20 to 60°C (-4 to 140°F)	-25 to 60°C (-13 to 140°F)
Humidity	10-95% RH, noncondensing		
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test		
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)		
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)		
Vibration	5 to 55Hz 2G for 2 hours in the X, Y, and Z axes		
Shock	10G for under 12ms in the X, Y, and Z axes		
User Memory	512KB System RAM memory		
	Expansion memory: 512KB option RAM card (EZ-RAM-1) or 1MB RAM card (EZ-RAM-2)		
	Backup/transferable memory: 512KB flash card (EZ-FLASH-1), 1MB flash card (EZ-FLASH-2), or 2MB flash card (EZ-FLASH-3)		
Number of Screens	Up to 999 limited by memory		
Real-time Clock	Built into panel (PLC clock is still accessible if available)		
Screen Saver	Backlight off		
Communications	PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232/RS-422/RS-485A 9 pin D-sub (female)		
	DH+ Port: DH+ option board 25-pin connector (Female) Direct. LOGIC Ethernet: (EZ-Ethernet)**	DH+ Port: DH+ option board 25-pin connector (Female) Direct. LOGIC Ethernet: (EZ-Ethernet)**	DH+ Port: DH+ option board 25-pin connector (Female) Direct. LOGIC Ethernet: (EZ-Ethernet)**
External Dimensions	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	8.50"x10.55"x2.44" (215.9x267.97x61.976mm)	10.60"x13.59"x2.60" (269.22x345.186x66.04mm)
Weight	1.4 lb	1.6 lb	3.8 lb

* denotes available with built-in Data Highway Plus interface card (add "H" to part number).


** Sold separately

EZTOUCH SELECTION GUIDE AND SPECIFICATIONS

EZTouch Panel Specifications - NEMA 1, FDA Compliant, 6-inch and 8-inch Models						
Part Number	EZ-S6C-FS	EZ-S6C-FSH	EZ-S6C-FST	EZ-S8C-FS	EZ-S8C-FSH	EZ-S8C-FST
						
Price	<--->	<--->	<--->	<--->	<--->	<--->
Specification	6" color slim bezel full feature	6" color slim bezel full feature w/DH+	6" color slim bezel full feature	8" color slim bezel full feature	8" color slim bezel full feature w/DH+	8" color slim bezel full feature w/MODBUS TCP/IP
Enclosure	NEMA 1, FDA compliant					
Display Type	5.7" STN (128-color palette)			8.2" STN (128-Color Palette)		
Display Size (Viewing Area)	4.65"x3.5" (118.1x88.9mm)			6.65" x 5.024" (168.9 x 127.61 mm)		
Screen Pixels	320x240			640 x 480		
Display Brightness	180 nits			90 nits		
Touch Screen	192 resistive touch cells (16 x 12)					
CPU Type	Motorola Coldfire 32 bit CPU (40 MHZ)					
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended					
Power Consumption	15 watts @ 24VDC			16 watts @ 24VDC		
Agency Approvals	UL, CUL, CE					
Operating Temperature	0 to 45°C (32 to 113°F)			0 to 40 °C (32 to 104 °F)		
Storage Temperature	-25 to 60°C (-13 to 140°F)			-20 to +60 °C (-4 to +140 °F)		
Humidity	10–95% R.H., noncondensing					
Electrical Noise Interference	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test					
Withstand Voltage	1000 VDC (1 minute), between power supply input terminal and protective ground (FG)					
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)					
Vibration	5 to 55 Hz 2G for 2 hours in the X, Y, and Z axes					
Shock	10G for under 12 ms in the X, Y, and Z axes					
User Memory	512K System RAM Memory, 512K and 1 MB Option RAM Card for Memory Expansion; 512K, 1MB or 2MB Option Flash Card for Memory Backup/Transfer					
Number of Screens	Up to 999, limited by memory					
Real-time Clock	Built into panel (PLC clock is still accessible, if available)					
Communications	PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232/RS-422/RS-485A 9 pin D-sub (female)			PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232C, RS-422A, RS-485A, 9-pin D-sub (Female)		
	Direct LOGIC Ethernet: (EZ-Ethernet)* Option board (RJ45)	DH+ Port: DH+ option board 25-pin connector (Female)	MODBUS TCP/IP: Option Board (RJ45)	Direct LOGIC Ethernet: (EZ-Ethernet)* Option board (RJ45)	DH+ Port: DH+ option board 25-pin connector (Female)	MODBUS TCP/IP: Option Board (RJ45)
Screen Saver	Yes, backlight off					
External Dimensions	6.145x8.048x2.433" (156.078x204.407x51.786mm)			8.75" x 10.89" x 2.76" (222.25 x 276.61 x 70.10mm)		
Weight	1.7 lbs			2.9 lbs.		

* Sold separately


EZTOUCH SELECTION GUIDE AND SPECIFICATIONS

EZTouch Panel Specifications - NEMA 1, FDA Compliant 10-inch Models							
Part Number	EZ-T10C-FS	EZ-T10C-FSD	EZ-T10C-FSE	EZ-T10C-FSH	EZ-T10C-FSM	EZ-T10C-FSP	EZ-T10C-FST
							
Price	<--->	<--->	<--->	<--->	<--->	<--->	<--->
Specification	10" color slim bezel full feature	10" color slim bezel full feature with DeviceNet	10" color slim bezel full feature w/Ethernet/IP	10" color slim bezel full feature with DH+	10" color slim bezel full feature w/MODBUS+	10" color slim bezel full feature w/Profibus DP	10" color slim bezel full feature w/MODBUS TCP/IP
Enclosure	NEMA 1, FDA compliant						
Display Type	10.4" TFT (128-Color Palette)						
Display Size (Viewing Area)	8.31" x 6.22" (211.07 x 158 mm)						
Screen Pixels	640 x 480						
Display Brightness	200 nits						
Touch Screen	192 resistive touch cells (16 x 12)						
CPU Type	Motorola Coldfire 32 bit CPU (40 MHz)						
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended						
Power Consumption	18 watts @ 24VDC						
Agency Approvals	UL, CUL, CE						
Operating Temperature	0 to 50 °C (32 to 122 °F)						
Storage Temperature	-25 to +60 °C (-13 to +140 °F)						
Humidity	10-95% R.H., noncondensing						
Electrical Noise Interference	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test						
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)						
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)						
Vibration	5 to 55 Hz 2G for 2 hours in the X, Y and Z axes						
Shock	10G for under 12 ms in the X, Y and Z axes						
User Memory	512K System RAM Memory, 512K and 1 MB Option RAM Card for Memory Expansion; 512K, 1MB or 2MB Option Flash Card for Memory Backup/Transfer						
Number of Screens	Up to 999, limited by memory						
Real-time Clock	Built into panel (PLC clock is still accessible, if available)						
Communications	PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232C, RS-422A, RS-485A, 9-pin D-Sub (Female)						
	Direct LOGIC Ethernet: (EZ-Ethernet)*	DeviceNet: Standard terminal	Allen Bradley Ethernet/IP: RJ45	DH+ Port: DH+ option board 25-pin connector (Female)	MODBUS Plus: 9-pin (Female)	Profibus DP: 9-pin (Female)	MODBUS TCP/IP: (RJ45)
Screen Saver	Yes, backlight off						
External Dimensions	10.59" x 13.58" x 2.86" (268.99 x 344.93 x 72.64 mm)						
Weight	5.0 lbs.						

* Sold separately

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EZTOUCH SELECTION GUIDE AND SPECIFICATIONS

EZTouch Panel Specifications - NEMA 1, FDA Compliant 15-inch Models							
Part Number	EZ-T15C-FS	EZ-T15C-FSD	EZ-T15C-FSE	EZ-T15C-FSH	EZ-T15C-FSM	EZ-T15C-FSP	EZ-T15C-FST
							
Price	<--->	<--->	<--->	<--->	<--->	<--->	<--->
Specification	15" color slim bezel full feature	15" color slim bezel full feature with DeviceNet	15" color slim bezel full feature with Ethernet/IP	15" color slim bezel full feature with DH+	15" color slim bezel full feature with MODBUS+	15" color slim bezel full feature with Profibus DP	15" color slim bezel full feature with MODBUS TCP/IP
Enclosure	NEMA 1, FDA compliant						
Display Type	15.0" TFT (128-Color Palette)						
Display Size (Viewing Area)	12.02" x 9.01" (305.28 x 228.96 mm)						
Screen Pixels	640 x 480						
Display Brightness	250 nits						
Touch Screen	192 resistive touch cells (16 x 12)						
CPU Type	Motorola Coldfire 32 bit CPU (40 MHz)						
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended						
Power Consumption	33 watts @ 24VDC						
Agency Approvals	UL, CUL, CE						
Operating Temperature	0 to 45 °C (32 to 113 °F)						
Storage Temperature	-25 to +60 °C (-13 to +140 °F)						
Humidity	10–95% R.H., noncondensing						
Electrical Noise Interference	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test						
Withstand Voltage	1000 VDC (1 minute), between power supply input terminal and protective ground (FG)						
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)						
Vibration	5 to 55 Hz 2G for 2 hours in the X, Y, and Z axes						
Shock	10G for under 12 ms in the X, Y, and Z axes						
User Memory	1MB System RAM Memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer						
Number of Screens	Up to 999, limited by memory						
Real-time Clock	Built into panel (PLC clock is still accessible, if available)						
Communications	PLC Port: RS-232C, RS-422A, RS-485A, 15-pin D-Sub (Female) Download/Program Port: RS-232C, RS-422A, RS-485A, 9-pin D-Sub (Female)						
	Direct LOGIC Ethernet (EZ-Ethernet)*	DeviceNet: Standard terminal	Allen Bradley Ethernet/IP: RJ45	DH+ Port: DH+ option board 25-pin connector (Female)	MODBUS Plus: 9-pin (Female)	Profibus DP: 9-pin (Female)	MODBUS TCP/IP: (RJ45)
Screen Saver	Yes, backlight off						
External Dimensions	13.00" x 16.75" x 4.66" (330.2 x 425.45 x 118.36 mm)						
Weight	8.9 lbs.						

* Sold separately