



# MMI-430T

## 4.3" Color Graphic Display Panel and Touch Screen

### Introduction

The MMI-430T series touch screen is the result of our continuous efforts to perfect our PLC touch screen products. Our accumulated knowledge in touch screen design has enabled us to produce these state-of-art touch screen, bringing out the PLC's full of potential, and improving production line efficiency.

### Features

- 480 x 272, 256 Colors, TFT LCD Display
- 32 Bit Risc
- Compact Size
- NEMA4/IP65 Compliant Front Panel
- RS232/485 4/2 Wire Port



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# MMI-430T 4.3" Color Graphic Display Panel and Touch Screen

Specifications	
Construction:	plastic molding housing
Display:	480 x 272 256 color TFT LCD
CPU:	32 bit RISC
System DRAM:	4 MB on board
Storage:	2 MB flash memory on board,
I/O: 3 serial ports:	1 RS232 port (PC-HMI) 1 RS232/485 port (HMI-PLC)
RTC:	none
Power input:	12~28 VDC, 0.3A @12V, 0.15A @24V
Weight:	Approx. 0.3kg
Software:	EB500 V2.7.3 or later

LCD Display	
Display type	TFT color LCD
Display size (diagonal)	4.3"
Max colors	256
Resolution	489 x 272
Pixel pitch (HxV, mm)	0.198 x 0.198
Viewing angle (°)	80/80/80/80 (T/B/R/L)
Luminance (cd/m2)	300
Storage temperature (C)	-30° ~ 70°C (240hrs)
Operating temperature (C)	0° ~ 45°C (32° ~ 113°F)
Backlight	LED
Backlight Life	80,000 hrs
Contrast ratio	400:1

Touchscreen	
Type:	4-wire, analog resistive
Resolution:	continuous
Light transmission:	above 80%
Life:	1 million activation minimal

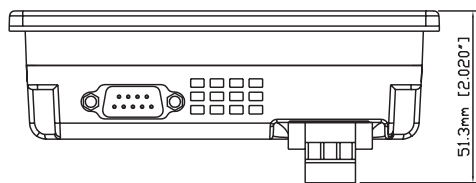
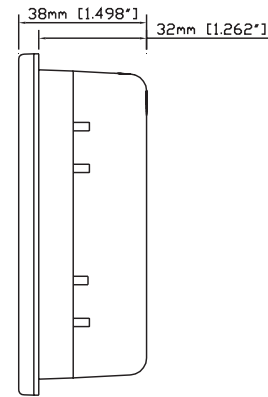
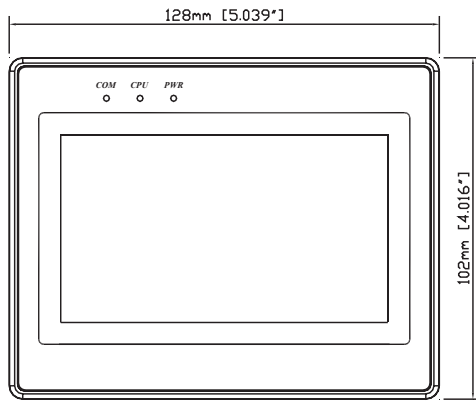
Environmental Specifications	
Operating temperature:	0 ~ 45C (32 ~ 113F)
Relative humidity:	10% ~ 80% @ 40°C, non-condensing
Shock (operation):	10 to 25Hz (X,Y,Z direction 2G 30minutes)
EMI:	Complies with FCC Class A
CE :	Complies with EN50081-2 and EN50082-2 standards
Front panel:	NEMA4 / IP65

EasyBuilder Software Specification	
Screen editor	<b>EasyBuilder V2.7.3 or later</b> (requires Windows 2000, XP)
No. of window	Up to 1989 Windows
No. of object	Up to 500 per window, limited by memory
Text strings	limited only by memory
Graphics	Supports BMP, GIF and JPG
PLC Support	Most popular PLC's
Macro Scripts	Easy to use macro scripting language
System Requirements	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.
EB8000 Setup and Features	<p>EasyBuilder has a complete set of drawing tools as well as the ability to import and place bitmaps. Summary of EasyBuilder Objects</p> <p><b>Bit Lamp</b> – Place an indicator that is bit triggered</p> <p><b>Word Lamp</b> – Place an indicator that is word triggered</p> <p><b>Set Bit</b> – Set a bit on a button press, button hold, window change, backlight activation or data entry.</p> <p><b>Set Word</b> – Set a word on a button press, button hold, window change, backlight activation or data entry.</p> <p><b>Toggle Switch</b> – Toggle a bit</p> <p><b>MultiState Switch</b> – Increment/Decrement a word</p> <p><b>Function Button</b> – Perform a system operation</p> <p><b>Numeric Input / Display</b> – Change/Display digital data</p> <p><b>ASCII Input / Display</b> – Change/Display alphanumeric data</p> <p><b>X,Y Move Animation</b> – Move an object via pixel coordinates</p> <p><b>Spot Move Animation</b> – Move an object on a predefined path</p> <p><b>Direct Window</b> – Popup Window on Bit status change</p> <p><b>Indirect Window</b> – Popup Window depending on Word's value</p> <p><b>Alarm Display</b> – display predefined text strings in response to bit changes</p> <p><b>Trend Graph</b> – Plots active data on a trend</p> <p><b>Data History Display</b> – Show contents of Data Logger</p> <p><b>Meter</b> – Display one of 4 different types of meters</p> <p><b>Scrolling Alarm</b> – display predefined text strings in response to bit changes</p> <p><b>Event Display</b> – display and log predefined text strings in response to bit or word changes</p> <p><b>Data Transfer</b> – move data to and from the PLC</p> <p><b>PLC Controls:</b> Change window, Backlight control, Macro Execution, Data Transfer</p>

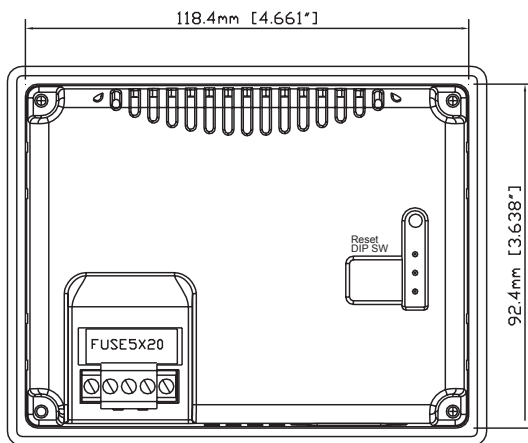
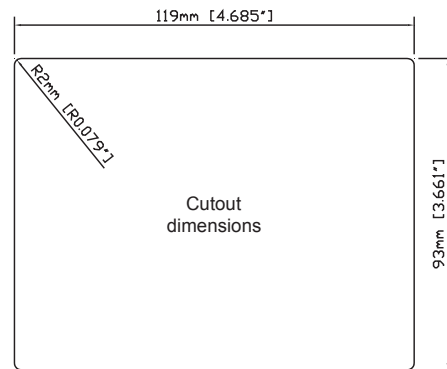
Ordering Information	
Part Number	Description
MMI430T	Graphic Interface with 4.3" Color LCD display and Touchscreen, includes programming cable and setup software.

## Installation Guide

**Dimensions are in mm (inches)**

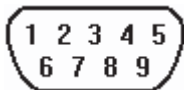


*Rear View*



### Pin Designations

Pin assignment of the 9 Pin, Male, SUB-D PC [RS-232], PLC [RS-232] & PLC [RS-485] Port.



NOTE: KEP SMIC cables are not compatible with the MMI-430

Pin#	Symbol	PLC[RS485] 4 wire	PLC[RS485] 2 wire	PLC [RS232]	PC [RS232]
1	Rx-	Rx-	Data-		
2	Rx+	Rx+	Data+		
3	Tx-	Tx-			
4	Tx+	Tx+			
5	GND	Signal Ground			
6	TxD			Transmit	
7	TxD				Transmit
8	RxD				Receive
9	RxD			Receive	