



# MMI6050

## 4.3" Color Graphic Display Panel and Touch Screen

- 4.3" 480x272 TFT LCD
- Fan-less cooling system
- NEMA4/IP65 compliant front panel
- LED Back Light
- One USB client port
- Power Isolator Inside

### Introduction

MMI6050 series is part of the the new MMI8000 Series from KEP. Based on the design concept of meeting customers' satisfaction with easy-to-use attributes. The MMI6050 not only performs as a Human Machine Interface but also plays the role of a data exchange center. The MMI6050 is the best choice for meeting tomorrow's requirements today. The MMI6050 includes a USB 2.0 high speed device.

### General Specifications

- Construction: plastic molding housing
- Display: 4.3" 65,536 color TFT LCD
- CPU and core logic: 32Bit RISC 400MHz processor
- DRAM: 64 MB DDR2 on board
- Storage: 128 MB flash memory on board, (User project size: 16MB, Data and Event log size: 48MB)
- I/O: 1 serial port:COM1: RS-232/RS-485 2w/4w, 1 mini-USB 2.0 high speed device
- RTC: N/A
- Power input: 24±20%VDC,250mA@24VDC
- Dimension (W x H x D): 128 x 102 x 38mm
- Weight: 0.3kg
- Software: EB8000 V3.0.0 or later
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### Touchscreen

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

### Display

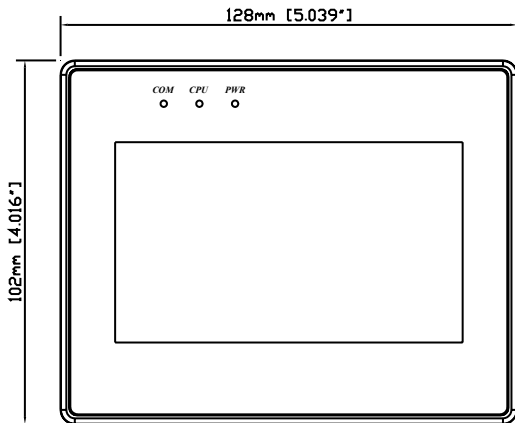
Display type	TFT LCD
Display size (diagonal)	4.3"
Max colors	65536
Resolution	480 x 272
Pixel pitch (HxV, mm)	0.198 x 0.198
Viewing angle (°)	50/70/70/70(T/B/R/L)
Luminance (cd/m <sup>2</sup> )	450
Backlight	LED
Backlight Life time	30,000 hrs.
Contrast ratio	500:1

### Environmental Specifications

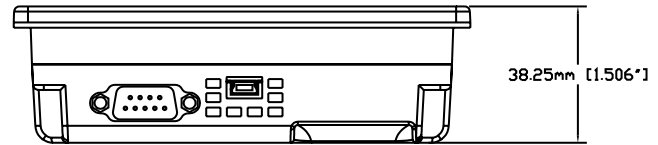
- Operating temperature: 0° ~ 45°C (32° ~ 113°F)
- Relative humidity: 10% ~ 90% @ 40°C, non-condensing
- Shock (operation): 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- EMI: Complies with FCC class A
- CE: Complies with EN50081-2 and EN50082-2 standards
- Front panel meets NEMA4 / IP65

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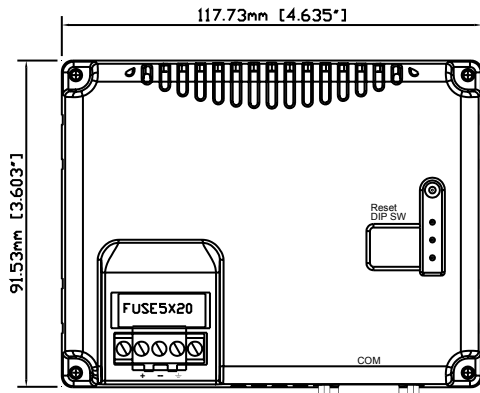
## Installation Guide **Dimensions are in mm (inches)**



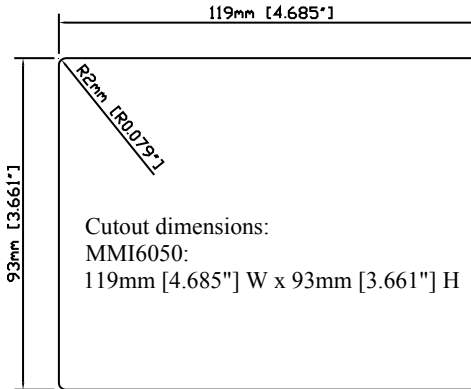
*Front View*



*Bottom View*



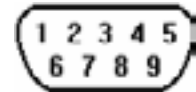
*Rear View*



Cutout dimensions:  
MMI6050:  
119mm [4.685"] W x 93mm [3.661"] H

### Pin Designations

Pin assignment of the 9 Pin, Male, SUB-D  
Com1[RS-232], Com1[RS-485 2w/4w]



Pin#	Symbol	Com1[RS485] 4 wire	Com1[RS485] 2 wire	Com1[RS232]
1	Rx-	Rx-	Data-	
2	Rx+	Rx+	Data+	
3	Tx-	Tx-		
4	Tx+	Tx+		
5	GND			
6	TxD			Transmit
7				
8				
9	RxD			Receive



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### Ordering Information

Part Number	Description
MMI6050	Graphic Interface with 4.3" Color LCD display and Touchscreen with 128MB flash memory/64MB DDR2 RAM on board. Setup software for programming included