Flexem HMI FE4000 series

Model：FE4043E

Product Overview

- Metal casing for better heat dissipation and anti-interference capability.
- Three-proof paint treatment of the main board, adapt to a variety of harsh environments
- High resolution, high brightness, LED backlight, more energy-saving and environmentally friendly
- Streamlined dual communication ports,
- USB host: supports USB flash disk data storage and download.
- New configuration software, rich gallery, powerful functions
- 2 serial ports, with Ethernet port, stronger expansion capability

Appearance



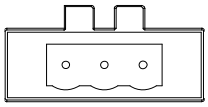
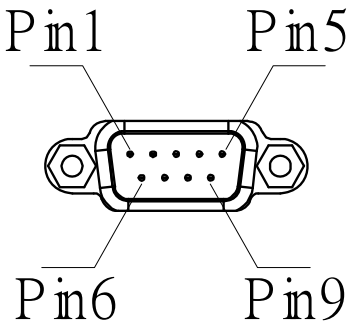
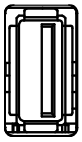


Hardware Specification

Hardware version		Version 2.0	Version 3.1
Hardware Parameters	Display	4.3", 16:9 TFT LCD	
	Resolution	480×272 pixels	
	Color range	24-bit	
	Brightness (cd/m²)	300	
	Backlight	LED	
	Half Brightness Life Time (MTBF*1)	50000 hours	
	Touch Screen	4-wire Industrial Resistive Type	
	CPU	600MHz ARM Cortex-A8	Quad-core 1.2GHz ARM Cortex-A7
	Memory	128M DDR3+ 128M Flash	128M DDR3+4G EMMC
	RTC	Built-in	
	Ethernet port	1-line 10M/100M self-adaptive	
	USB Port	1 USB Slave 2.0 Port,1 USB Host 2.0 Port	
	Download method	USB Slave Port / USB drive / Ethernet port	
	Serial port	COM1：RS232/RS485/RS422； COM3：RS232	
	LCD viewing angle （T/B/L/R)	50'/70'/70'/70'	
Electrical specifications	Rated Power	< 5W	
	Rated Voltage	DC24V	
	Permitted voltage range	+9VDC ~+28VDC	
	Power supply protection	With lightning surge protection	
	Tolerance power-off time	< 5mS	
	Certification	CE, RoHS	
Environmental requirements	Working Temperature	-20~70℃	
	Storage Temperature	-30~80℃	
	UV-Proof	Work in strong ultraviolet environment (such as direct sunlight) is prohibited.	
	Environment humidity	10~90%RH (Non condensate)	
	Anti-vibration	10~25Hz (X,Y,Z direction 2G/30 minutes)	
	Cooling method	Natural Cooling	

Mechanical Parameters	Protection	Front: IP65 Rear: IP20
	Mechanical Structure	Aluminum alloy and galvanized sheet
	Panel Cutout	120mm×93mm
	Machine Size	130mm×104mm×43mm
	Net Weight	About 465g

Wiring Definition

Power Terminals (Pin1~3 from left to Right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Port Terminals		
	Pin1	Rx-(B) (COM1 RS422-/RS485-)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx- (COM1 RS422-)
	Pin5	GND
	Pin6	Rx+(A) (COM1 RS422+/RS485+)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+ (COM1 RS422+)
USB Host		
	USB Type A	Used for connecting U-disc and barcode scanner etc.
USB Slave		
	USB Type B	Used for downloading programs and debugging
Ethernet Port		
	RJ45	Used for setting Ethernet with controllers or used for connecting server.

Dimension drawing

