



FE3370WE

Datasheet



1 Product Overview

1.1 Product Introduction

• Plastic shell, strong adaptability, high reliability • High resolution, high brightness, LED backlight, more energy-saving and environmentally friendly • USB host port supports U disk data storage and download • 3 serial ports, 1 network port, more powerful expansion capabilities • New configuration software, rich gallery, powerful functions

1.2 Product Appearance

•

2 Product Specifications

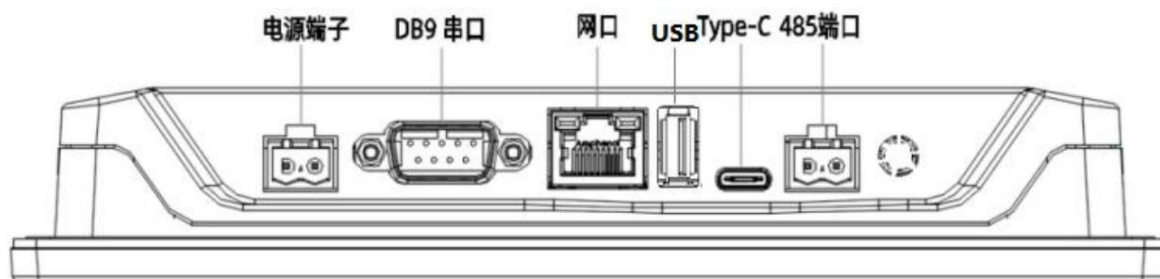
Classification Project	parameter	
Hardware Parameters	Display	7" 16:9 TFT LCD screen
	Resolution	1024×600
	color	24 bits
	brightness	250 cd/m ²
	Backlight	led
	LCD Lifespan	50000 hours
	touchscreen	4-wire industrial resistive touch screen
	CPU	1GHz, dual-core Cortex-A7
	Memory	128MB Flash + 128MB DDR3
	RTC	Real time clock built in
	Ethernet interface	1 10M/100M adaptive RJ-45 interface
	SD card	Not supported
	Bluetooth	Not supported
	USB port	1 USB Type-C 2.0 2.0 OTG port, 1 USB Type-A 2.0 Interface
	Program download method	USB /USB flash drive /Ethernet
	Serial communication port	COM1: RS232/RS485/RS422 COM2: RS485

		COM3: RS232
	LCD viewing angle (T/B/L/R)	50°/70°/70°/70°
Electrical specifications	Rated Power	< 10W
	Rated voltage	DC24V, working range DC 9V~28V
	Power protection	With lightning surge protection
	Allow power failure	< 5mS
	CE & RoHS	Complies with EN61000-6-2:2019, EN61000-6-4:2019 standards Compliant with RoHS Lightning surge ±1KV, group pulse ±2KV; Electrostatic contact 4KV, air discharge 8KV
Environmental requirements	Operating temperature	0~50℃
	Storage temperature	-20~60℃
	UV protection	Do not work in strong ultraviolet light environment (such as direct sunlight)
	Ambient humidity	10~90%RH (non-condensing)
	Shock resistance	10~25Hz (X, Y, Z directions 2G/30 minutes)
	Cooling method	Natural air cooling
Mechanical indicators	Protection level	The front panel complies with IP65 (for installation in a flat cabinet), and the rear shell complies with IP20
	Mechanical structure	Engineering Plastics
	Opening size	190mm×136mm
	Machine size	204mm×145mm×34mm (tolerance ±0.5mm)

	Machine weight	About 476g
--	----------------	------------



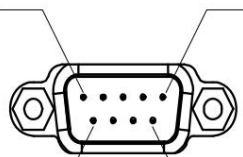
3. Wiring Definition



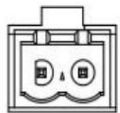
3.1 Power Terminal

Power terminal (Pin1~Pin2 from left to right) Pin	Function
	Pin1 0V
	Pin2 DC24V

3.2 DB9 serial port terminal

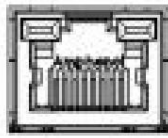
	Pin COM1 (RS485)	COM1 (RS422)	COM1 (RS232)	COM3 (RS232)	
	Pin1 Rx-(B)	Rx-(B)			
	Pin2			RxD	
	Pin3			TxD	
	Pin4	Tx-			
	Pin5 GND	GND	GND	GND	
	Pin6 Rx+(A)	Rx+(A)			
	Pin7				RxD
	Pin8				TxD
	Pin9	Tx+			

3.3 RS485 serial port

RS485 (Pin1~Pin2 from left to right) Pin	Function
	Pin1 A+ (COM2 RS485)
	Pin2 B- (COM2 RS485)

3.4 Ethernet interface

RJ45 interface, used to communicate with devices supporting Ethernet protocol (such as PLC, server, etc.).



3.5 USB Type-C 2.0 OTG port

USB Slave interface, used for downloading programs.



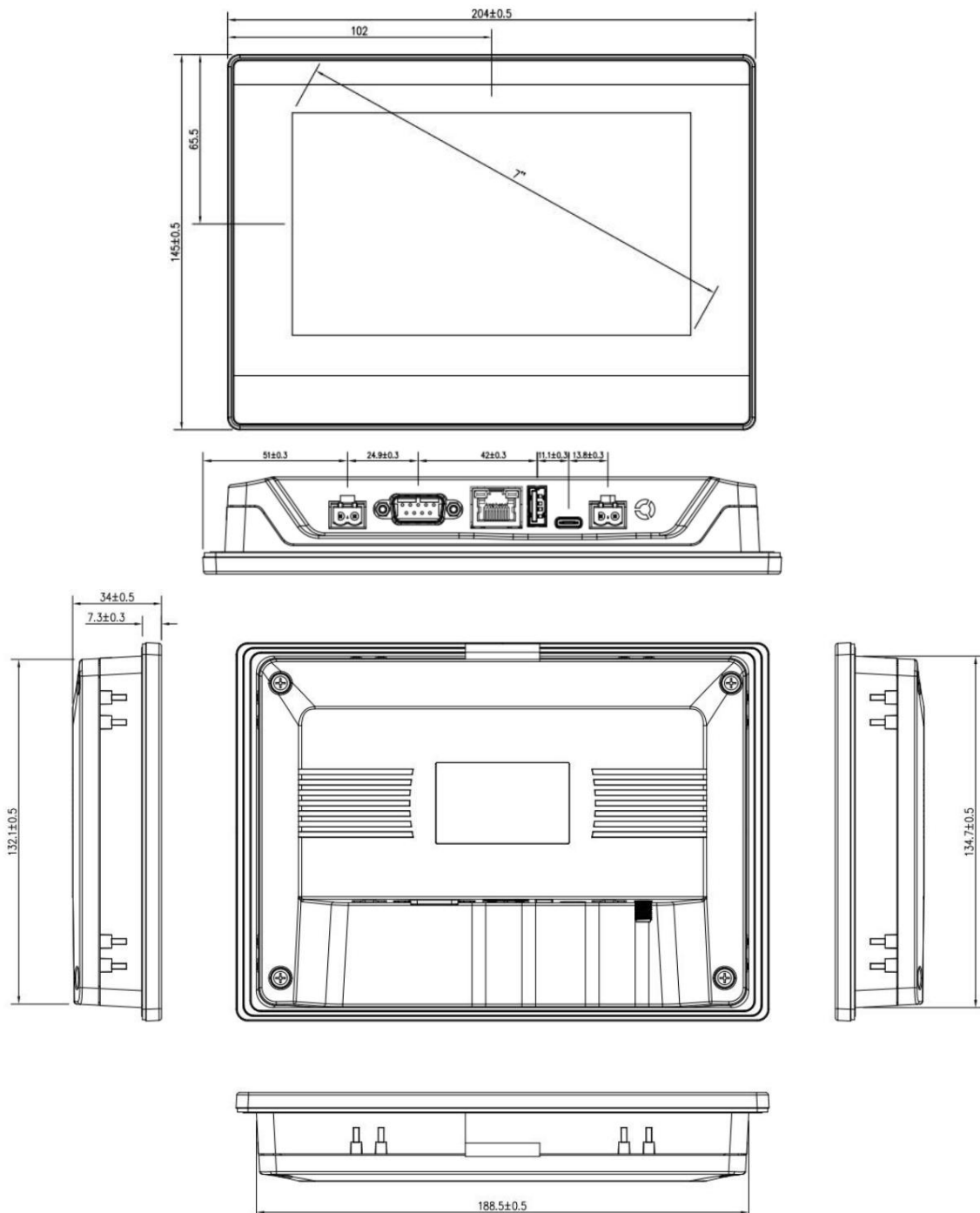
3.6 USB Type-A 2.0 port

USB Host interface, used to connect USB flash drives, barcode scanners and other peripherals.



4 Product size

Dimensions in mm



Embedded installation hole size: 190mm*136mm (+1.5mm/-0.0mm)

5 Product Overview

5.1 Product introduction

Plastic casing, strong adaptability and high reliability

High resolution, high brightness, LED backlight, more energy-efficient and environmentally friendly

USB host port supports data storage and download of USB flash drives

3 serial ports, 1 network port, stronger expandability

Brand-new configuration software, rich graphic library, powerful functions

5.2 Product Appearance



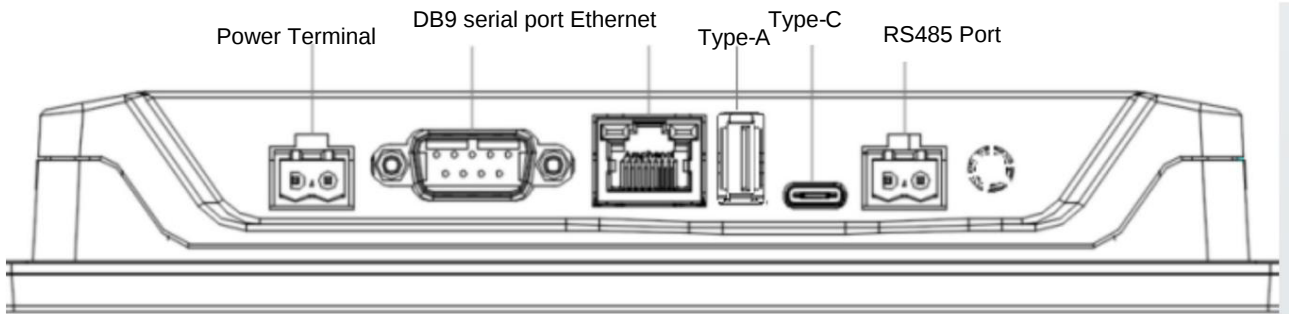
6 Specifications

category	Item	Description
Hardware	Display	7" 16:9 TFT LCD screen
	Resolution	1024×600
	Colors	24-bits
	Brightness	250 cd/m ²
	Backlight	led
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch screen
	CPU	1GHz, dual-core Cortex-A7
	Storage	128MB Flash + 128MB DDR3
	RTC	Built in real time clock
	Ethernet	1* 10M/100M self-adaptive RJ45 port
	SD Card	NA
	Bluetooth	NA
	USB Port	1*Type-C 2.0 OTG port;1*USB Type-A 2.0port
	Program Download Method	USB Slave/U disk/Ethernet
	Serial Port	COM1: RS232/RS485/RS422 COM2: RS485

category	Item	Description
		COM3: RS232
	LCD Viewing Angles (T/B/L/R)	50°/70°/70°/70°
Electrical Specifications	Rated Power	< 10W
	Rated Voltage	DC 24V, operating range DC 9V~28V
	Power Protection	Lightning surge protection
	Power Interruption Tolerance	< 5mS
	CE&RoHS	EN61000-6-2:2019 and EN61000-6-4:2019 standards certified;RoHS certified;lightning surge±1kV; group pulse ± 2kV; electrostatic contact 4kV, air discharge 8kV
Environmental Requirements	Operating Temperature	0~50℃
	Storage Temperature	-20~60℃
	UV Protection	Operating in high UV environment is prohibited(eg,in direct sunlight
	Humidity	10%~90%RH(non-condensing)
	Vibration Resistance	10~25Hz(X/Y/Z direction,2G/30 minutes)
	Cooling Method	Natural air cooling
Mechanical Specifications	Protection Level	Front:IP65(with flush panel cabinet installation),Rear:IP20
	Mechanical	Engineering plastic

category	Item	Description
	Structure	
	Mounting Cutout size	190mm×136mm
	Overall Dimensions	204mm × 145mm × 34mm (±0.5mm)
	Total Weight	About 476g

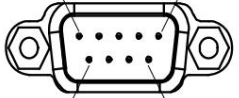
7 Wiring Definition



7.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	DC24V

7.2 DB9 Serial Interface

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)	
	Pin1	Rx-(B)	Rx-(B)			
	Pin2			RxD		
	Pin3			TxD		
	Pin4		Tx-			
	Pin5	GND	GND	GND	GND	
	Pin6	Rx+(A)	Rx+(A)			
	Pin7					RxD
	Pin8					TxD
	Pin9		Tx+			

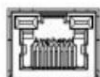
7.3 RS485 Interface

RS485 (Pin1~Pin2 from left to right)	Pin	Description
--------------------------------------	-----	-------------

RS485 (Pin1~Pin2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

7.1 Ethernet Port

RJ45 port for Ethernet communication with the controller or server.



7.2 USB Type-C 2.0 Port

USB Slave port, Used for program download.



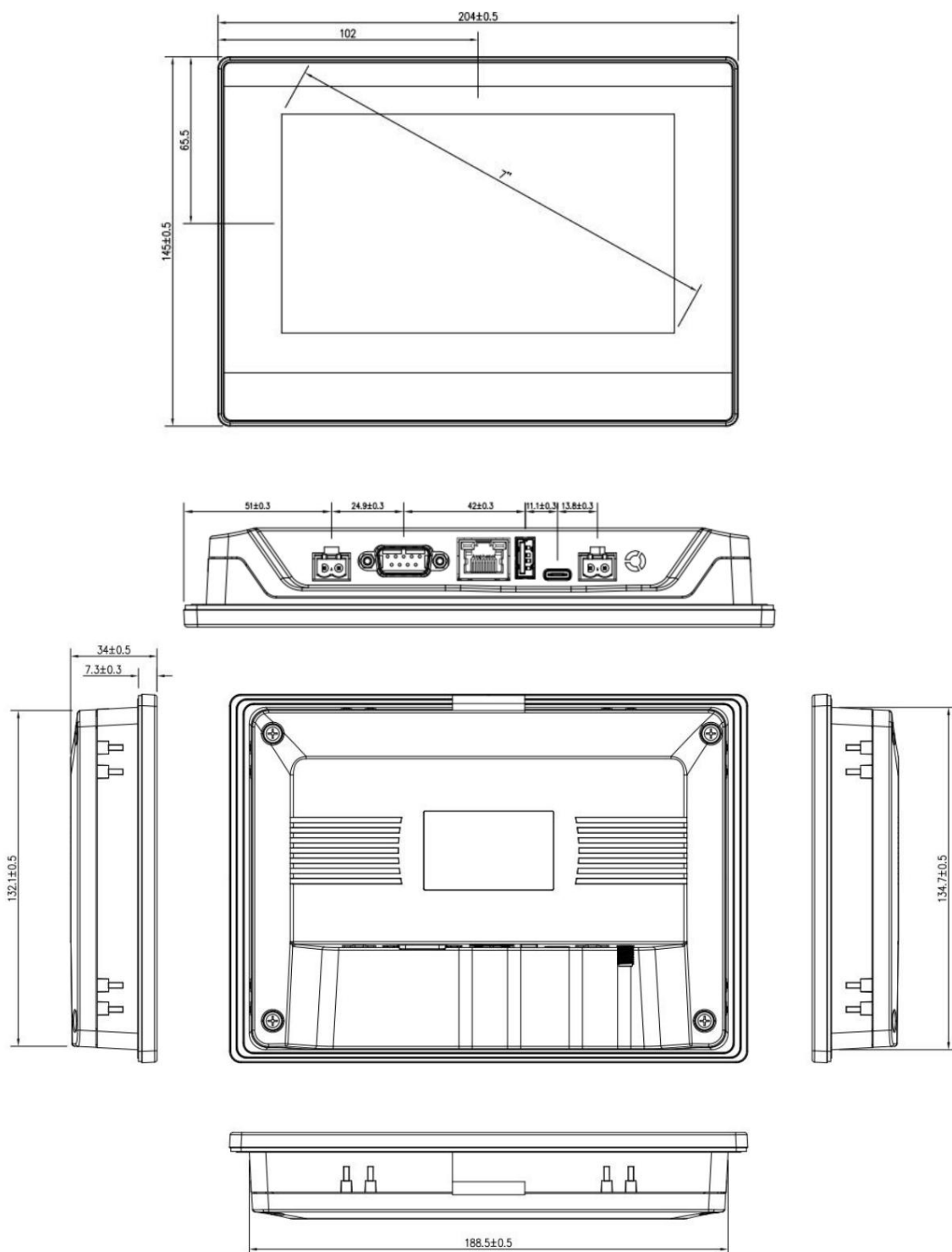
7.3 USB Type-A 2.0 Port

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner.



8 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: $190 \times 136 (+1.5 \text{ mm} / -0.0 \text{ mm})$