



# **FE4000 Series**

## **FE4000 New Metal HMIs**

- Aluminum enclosure, low cost, high reliability.
- The main board is with spray coating treatment, adapt to harsh industrial environment.
- High resolution, high brightness, LED backlight.
- Simple dual communication ports, supporting USB Disk/USB
- Totally new configuration software, rich gallery and powerful function.



- 9.7" 1024×768 TFT LCD.
- Metal enclosure and with only 38mm thickness.
- Industrial Isolated Power Supply module, 4 Serial Ports.
- USB 2.0 Device Port and high-speed software downloading.
- USB Host, Supporting USB Disk/USB Keyboard/Mouse expanded device etc.
- Wide temperature, working under -20~70C.
- The mainboard is with spray coating treatment, adapt to harsh industrial environment.
- Complied with ROHS, CE.

## Technical Parameters

Display:	9.7" TFT LCD
Resolution(W x H):	1024×768
Colors:	16-bit colors
Brightness:	350 cd/m <sup>2</sup>
Backlight:	LED
Backlight Life:	50000 hours
Touch Panel:	4 wires resistive touch screen ( Surface hardness 4H )
CPU:	600MHz ARM Cortex A8
Memory:	128MB Flash + 128MB DDR3
RTC:	Built in
Ethernet:	10M/100M Ethernet
USB Port:	USB Device 2.0*1, USB Host 2.0*1
Download Project:	U-disk /USB Device/Ethernet/SD Card
COM Port:	COM1/COM2 : RS232/RS485/RS422 COM3/COM4 : RS232

# Technical Parameters

0  
3

## Specifications

Power Consumption	< 10W
Input Power	DC24V , working range DC 18V~28V
Power Protection	Isolated power, Protected from thunderstrike and surging
Power Down Allowed:	< 5mS
CE	CE, complied with EN61000-6-2:2005 , EN61000-6-4:2007
RoHS	RoHS, Surge Immunity:±1KV, EFT:±2KV; ESD:4KV, Air:8KV

## Environment Specifications

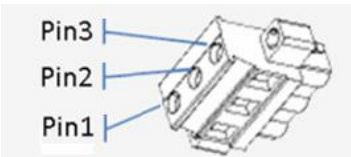
Operating Temperature:	-20~70C
Storage Temperature:	-30~80C
Operating Humidity:	10~90%RH ( no condensate )
Vibration Endurance:	10~25Hz ( X、 Y、 Z direction 2G/30 minutes )

## Others:

Degree of Protection:	Front IP65(with NEMA panel),Back IP20
Shell Material:	Front cover made by aluminum, and the surface with hard oxide treatment; Back cover made by galvanized sheet and the surface with dry spray treatment
Panel Cutout:	232×182 ( mm )
Dimension:	245.2×189.7×32(mm ) ( without terminals )
Weight:	About 1100g

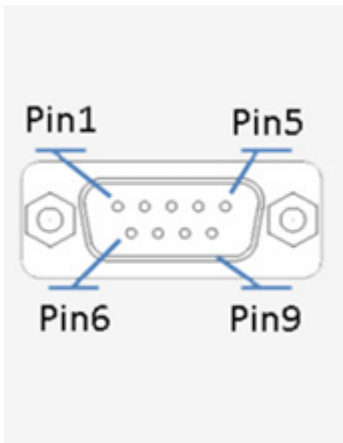
# Ports Specifications

## Power Terminals



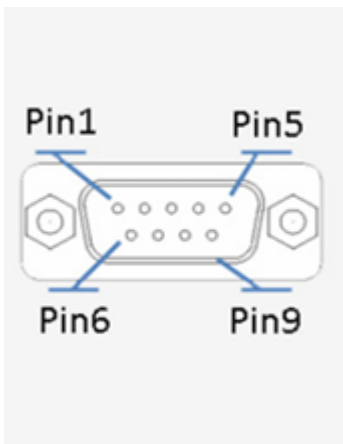
Pin1	DC24V
Pin2	0V
Pin3	FG

## COM1/COM3 Communication Ports (9DB Male)



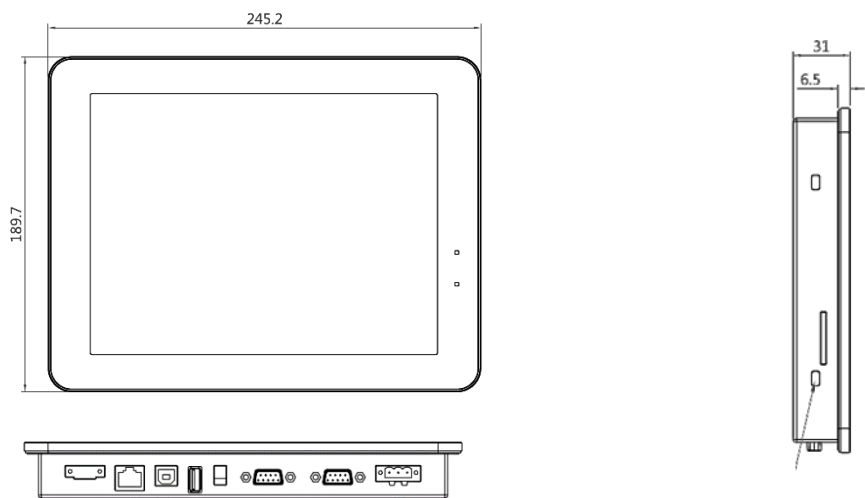
Pin1	Rx-(B)
Pin2	RxD_PLC (COM1 RS232)
Pin3	TxD_PLC (COM1 RS232)
Pin4	Tx-
Pin5	GND
Pin6	Rx+(A)
Pin7	RxD_PC/PLC (COM3 RS232)
Pin8	TxD_PC/PLC (COM3 RS232)

## COM2/COM4 Communication Ports (9DB Male)

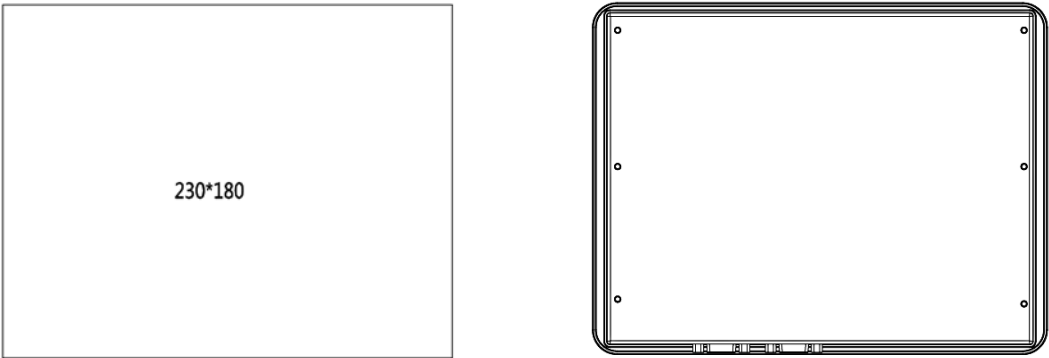


Pin1	Rx-(B)
Pin2	RxD_PLC (COM2 RS232)
Pin3	TxD_PLC (COM2 RS232)
Pin4	Tx-
Pin5	GND
Pin6	Rx+(A)
Pin7	RxD_PC/PLC (COM4 RS232)
Pin8	TxD_PC/PLC (COM4 RS232)
Pin9	Tx+

## Dimension



## Hole Dimension



## Shanghai ( R&D )

Add. Room 804, C6 Building, No.52 Bay Valley Technology Park, Lane 1688 North Guoquan Road, Yangpu District, Shanghai, 200438  
Tel. +86-21-68683993  
Fax +86-21-65107569

## Suzhou

Add. Room 915, Ruiqi Building, No.668 Fengting Road, Suzhou Industrial Area, Suzhou.  
Tel. +86-512-69833996

## Shenzhen

Add. 5 Floor C, No.2 Building, Honglong High-tech Park (Lanyun Industrial Park),  
Liyuan Industrial Area, Zhuangchang Villiage,  
Langxin committee, Shiyan Street, Bao'an District,  
Shenzhen  
Tel. +86-755-27610682  
Fax +86-755-27629895

## Wuxi

Add. Room 1603, Taihu Lake Developing Building,  
  
No. 1890 West Lake Avenue, Binhu Area,  
Wuxi.  
Tel. +86-18505101982

## Beijing

Add. Room 303, Unit 4, Building 1, Caiman Street,  
No 67 Chaoyang Road, ChaoYang District,  
Beijing.  
Tel. +86-10-51388516  
Fax +86-10-51388681

Bussiness: 0755-27610681

Technical Support: 4008-033-022

E-mail: [sales@flexem.cn](mailto:sales@flexem.cn)

Website: [www.flexem.com](http://www.flexem.com)