

Industrial HMI FS9 Series

FS912R



Product Overview

- Metal shell, better heat dissipation performance, better anti-interference ability
- Main board three-proof paint treatment, adapt to a variety of harsh environment
- High resolution, high brightness, LED backlight, more energy-saving and environmentally friendly
- USB port supports U disk data storage and downloading
- New configuration software, rich gallery, powerful functions
- Isolated power supply module, with lightning surge protection
- 4 serial ports, with Ethernet port, stronger expansion capabilities

Product Specifications

1. Hardware Parameters

Display diagonal	12.1"
Display Type	4:3 LCD TFT
Resolution	1024×768 pixels
Color range	65K
Brightness (cd/m ²)	350
Backlight	LED
Half Brightness Life Time (MTBF*1)	50000 hours
LCD viewing angle (T/B/L/R)	80°/80°/80°/80°
Touch Screen	4-line Industrial Resistive Type

Website: flexematic.com
Tel.: +1 612-876-2311

CPU	4-core1.2G Cortex-A53
Random access memory	1GB DDR3
Internal flash memory	8GB FLASH
RTC	Built-in
Ethernet port	1*RJ45, based on 10/100Mbps
SD Card	Support
USB Port	1 USB Slave 2.0 port 1 USB Host 2.0 port
Serial port	COM1/COM2: RS232/RS485/RS422; COM3/COM4: RS232
Download method	USB Slave Port / USB drive / Ethernet port

2. Electrical specification

Rated Power	< 15W
Rated Voltage	DC24V
Permitted voltage range	+9VDC ~+28VDC
Power supply protection	With lightning surge protection
Allowable power-off time	< 5mS
Certification	CE, RoHS


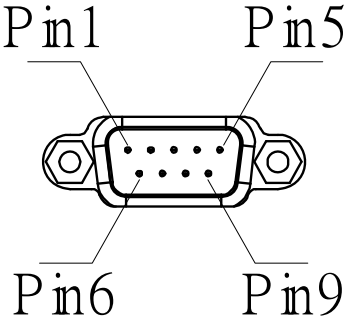
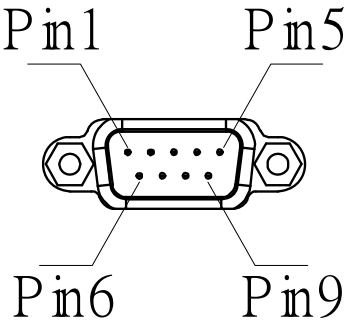



3. Environmental requirements

Working Temperature	-10~60℃
Storage Temperature	-20~70℃
Environment humidity	10~90%RH (Non condensate)
Anti-vibration	10~25Hz(X,Y,Z direction 2G/30 minutes)
Cooling method	Natural Cooling

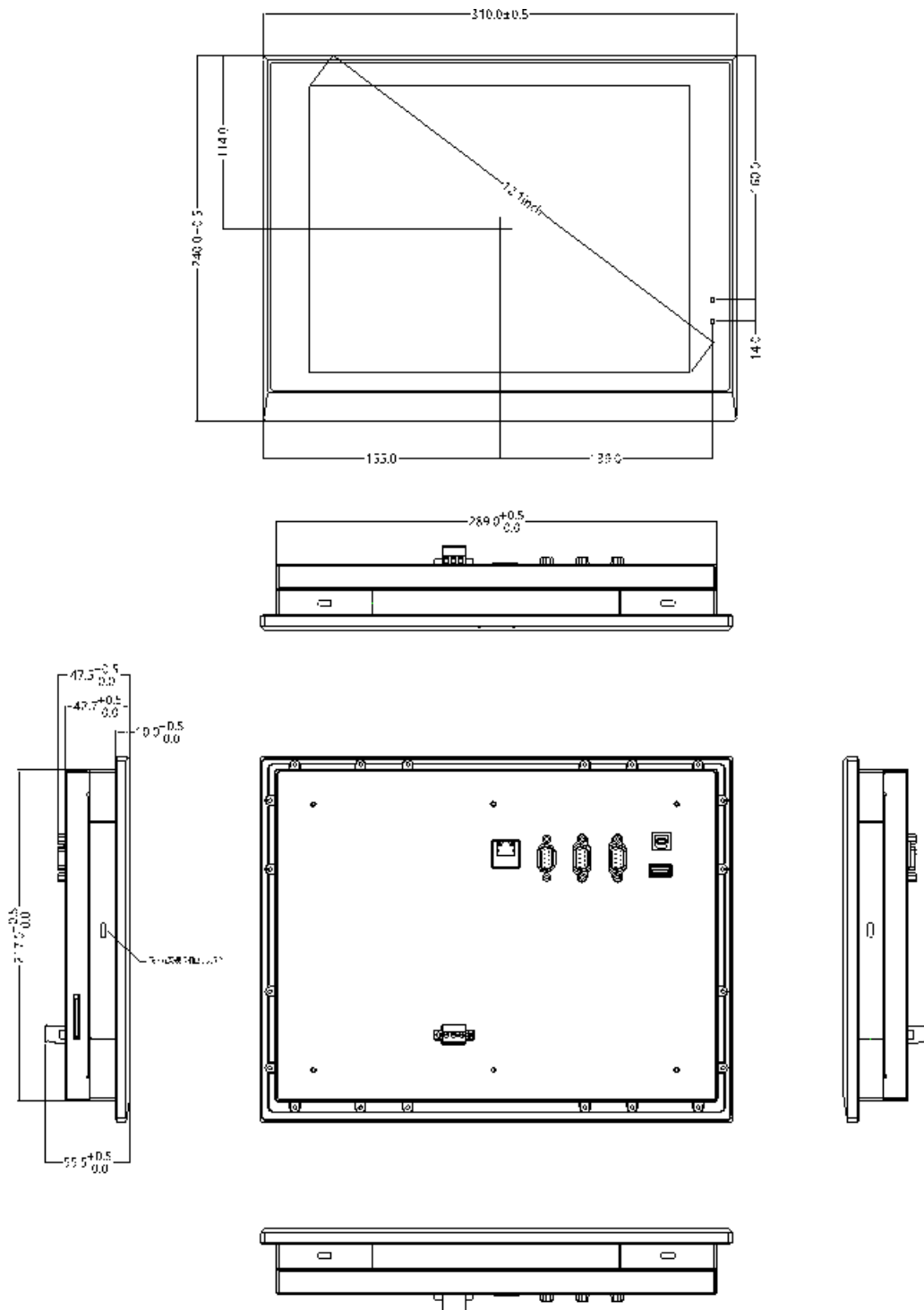
4. Mechanical Parameters

Installation method	Panel mount
Protection	Front: IP65 Rear: IP20
Mechanical Structure	Aluminum alloy + galvanized sheet powder spraying
Panel Cutout	291mm×219mm
Net Weight	About 2710g

Wiring Definition

Power Terminals (Pin1~3 from left to Right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Ports (COM1/COM3)		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
DB9 Serial Ports (COM2/COM4)		
	Pin1	Rx-(B)
	Pin2	RxD (COM2 RS232)
	Pin3	TxD (COM2 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM4 RS232)
	Pin8	TxD (COM4 RS232)
	Pin9	Tx+
USB Host		
	USB Type A	Used for connecting U-DISC and scanner.
USB Slave		
	Micro USB	Used for program downloading and debugging.
Ethernet Port		
	RJ45	Used for setting Ethernet with controller or connecting server.

Dimension drawings



Embedded installation cutout size: 291mm*219mm(-0.0/+1.0mm)