FLEXEMATiC

10.1" Industrial IoT HMI

FS610R, Resistive HMI

Product Overview

FLEMATIC FS6 series human-machine interface (HMI) continues to maintain the advantages of 6000 series of high beauty, high-cost performance, and free and flexible configuration of the FLink module. In addition, it has greatly improved the CPU performance of the product and increased the storage space. It Optimizes and reduces the installation space structure of FLink products, improves the overall design sense of products, and meet the needs of different application scenarios.

Product Specifications

1. Hardware parameters

Display diagonal	10.1"
Display Type	16:9 LCD TFT
Resolution	1024×600 pixels
Color range	Up to 16.7 million
Brightness (cd/m²)	400 cd/m²
Backlight	LED
Half Brightness Life Time (MTBF*1)	50000 H
LCD viewing angle （T/B/L/R)	85'/85'/85'/85'

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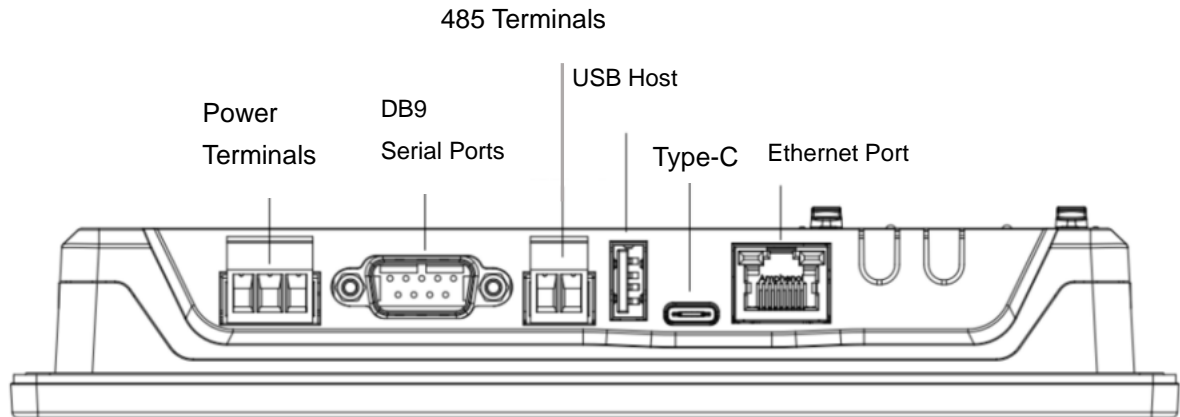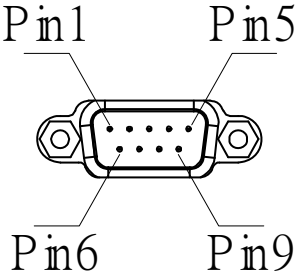| Touch screen	4-wire Resistive Type
CPU	1GHz,dual-core Cortex-A7
Random access memory	256MB DDR3
Internal flash memory	4GB eMMC
SD card expansion slot	NO
RTC	Built-in RTC
Ethernet Port	1*RJ45 based on 10/100Mbps
USB Port	1*USB 2.0 Type-C OTG 1*USB 2.0 Type-A
Serial Port	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232
Download method	USB Slave Port/USB drive/ Ethernet port

2. Electrical Specification

Rated power	< 10W
Rated voltage	24VDC
Permitted voltage range	+9VDC ~ +28VDC
Power supply protection	With lightning surge protection
Allowable power-off time	< 5ms
Certification	CE, RoHS

3. Environmental Requirements

Environmental requirements	Working temperature	0~50℃
	Storage temperature	-20~60℃
	Environment humidity	10~90%RH (Non condensing)
	Anti-vibration	10~25Hz (X,Y,Z direction 2G/30 min)
	Cooling method	Natural Cooling
Mechanical Parameters	Installation method	Panel mount
	Protection	Front :IP65; Rear:IP20
	Mechanical Structure	ABC engineering plastics
	Panel Cutout	260mm×202mm
	Machine Size	273mm×213mm×36mm （ public errand ±0.5mm）
	Net Weight	About 920 g

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Wiring Definition

Power Terminals (Pin1~3 from left to right)		
	Pin	Functions
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Ports (COM1/COM3)		
	Pin	Functions
	Pin1	Rx-(B） (COM1 RS422/485-)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx- (COM1 RS422)
	Pin5	GND
	Pin6	Rx+(A) (COM1 RS422/485+)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+ (COM1 RS422)
COM2-485 Terminals (Pin1~Pin2 from left to right)		
	Pin	Functions
	Pin1	A+（COM2 RS485）
	Pin2	B-（COM2 RS485）
Ethernet Ports		
	RJ45	Used for setting Ethernet with controller or used for server connection.
USB 2.0 Type-C OTG Port		
	Type-C	Used for downloading programs and debugging
		Used for connecting U-DISC and scanner etc. （Type C and USB Type A conversion cable is required）
USB 2.0 Type-A Host Port		

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	Type A	Used for connecting U-disk, scanner etc.	