

7" Industrial Capacitive HMI

FS107C



Product Overview

FM107C HMI is FLEXEMATIC's Industrial Capacitive HMI with beautiful outlook and compact size, it is suitable for many small and medium devices application. Multi-point capacitive touch screen, scratch resistant, no drift. IPS full-angle high-brightness LCD display, wide-angle high-brightness. Innovative embedded release and locking clip for convenient installation. Stronger and faster processor platform. New configuration software, rich graphics library and powerful functions

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Product Specifications

1. Hardware Parameters

Display diagonal	7"
Display Type	16:9 LCD TFT
Resolution	1024x600 pixels
Color range	Up to 16.7 million
Brightness (cd/m ²)	350
Backlight	LED
Half Brightness Life Time (MTBF*1)	50000 hours
LCD viewing angle (T/B/L/R)	85'/85'/85'/85'
Touch Screen	Glass+Glass Projection multi-point capacitive Type
CPU	4 core 1.2GHz ARM Cortex-A7
Random access memory	256MB DDR3
Internal flash memory	4GB eMMC
RTC	Built-in
Ethernet port	1*RJ45, based on 10/100/1000Mbps
SD Card	Support
USB Port	1 USB Slave 2.0 port 1 USB Host 2.0 port
Serial port	COM1: RS232/RS485/RS422 COM2/COM4: RS485 COM3: RS232
Download method	USB Slave Port / USB drive / Ethernet port

2. Electrical specification

Rated Power	< 6W
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


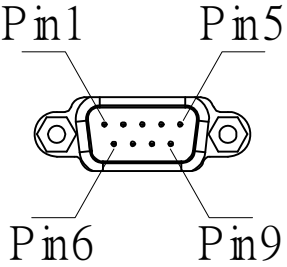
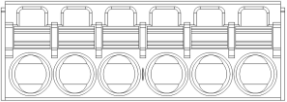


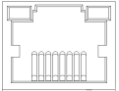
Environmental requirements	Working Temperature	-10~60℃
	Storage Temperature	-20~70℃
	Environment humidity	10~90%RH (Non condensate)
	Anti-vibration	10~25Hz(X,Y,Z direction)

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		2G/30 minutes)
	Cooling method	Natural Cooling
Mechanical Parameters	Installation method	Panel mount
	Protection	Front: IP65 Rear: IP20
	Mechanical Structure	ZINC+ engineering plastics
	Panel Cutout	178mm×125mm
	Net Weight	About 600g

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Wiring Definition

Power Terminal (Pin1~3 from left to right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Port		
	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)
485 Terminal (Pin1~Pin6 from left to right)		
	Pin1	A+(COM2)
	Pin2	B-(COM2)
	Pin3	GND
	Pin4	A+(COM4)
	Pin5	B-(COM4)
	Pin6	GND
USB Host		
	USB Type A	Used for connecting U-disk, scanner etc.
USB Slave		
	USB Type C	Used for downloading programs and debugging
Ethernet Port		
	RJ45	Used for Ethernet setting with the controller or connecting to the server.

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Dimension drawings

