FLEXEMATIC

Industrial IOT HMI

FS907R

Product Overview

FS907R HMI is FLEXEMATIC's new generation Industrial IoT HMI with industrial ABS economic frame. The embedded installation buckle adopts an isolated power module and has lightning surge protection, lost cost and high reliability. The motherboard is treated with three anti paint treatments to adapt to harsh environments. Adopting a more practical backward threading method. Good-looking; There are high-resolution models available for selection.

Through selecting IOT module to update to IOT HMI directly to enjoy complete FLEXEMATIC IoT cloud service.

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Hardware Specifications

1. Hardware Parameters

Display diagonal	7"
Display Type	16:9 LCD TFT
Resolution	800×480 pixels
Color range	65536
Brightness (cd/m²)	350
Backlight	LED
Half Brightness Life Time (MTBF*1)	50000 hours
LCD viewing angle （T/B/L/R)	85'/85'/85'/85'
Touch Screen	4-wire Industrial Resistive Type
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 10/100/1000Mbps
SD Card	Support
USB Port	1 USB Slave 2.0 port 1 USB Host 2.0 port
Serial port	COM1: RS232/RS485/RS422 COM2:RS485 COM3:RS232
Download method	USB Slave Port / USB drive / Ethernet port

2. Electrical specification

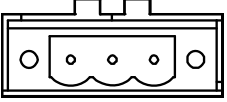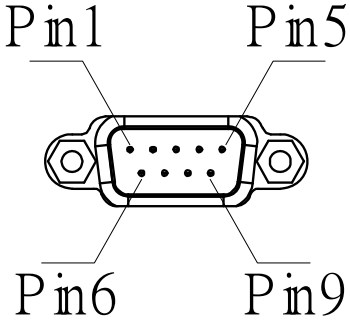|	
Rated Power	< 10W
Rated Voltage	DC24V
Permitted voltage range	+9VDC ~+28VDC
Power supply protection	With lightning surge protection
Allowable power-off time	< 5mS
Certification	CE, RoHS
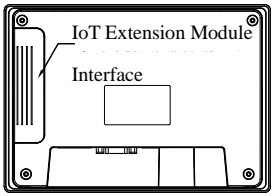
3. Environmental requirements

Environmental requirements	Working Temperature	0~50℃
	Storage Temperature	-20~60℃
	Environment humidity	10~90%RH (Non condensate)
	Anti-vibration	10~25Hz (X, Y, Z direction 2G/30 minutes)
	Cooling method	Natural Cooling
Mechanical	Installation method	Panel mount

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Parameters	Protection	Front: IP65 Rear: IP20
	Mechanical Structure	Engineering Plastics
	Panel Cutout	192mm×138mm
	Net Weight	About 560g

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Wiring Definition

Power Terminals (Pin1~3 from left to Right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Port Terminals		
	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 terminals (Pin1~2 from left to Right)		
	Pin1	A+（COM2 RS485）
	Pin2	B-（COM2 RS485）
Ethernet Ports		
	RJ45	Used for setting Ethernet with controllers or used for connecting server.
USB Host		
	USB Type A	Used for connecting U-disc and barcode scanner etc.
USB Slave		
	Micro USB	Used for downloading programs and debugging
FWay Pro Expansion Module		
	Expansion Module Slot	Module: FWay Pro

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Dimension drawings

Embedded installation buckle