

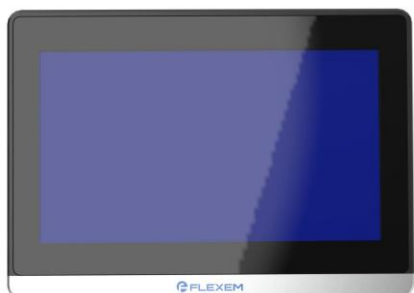
Capacitive HMI Series

Model: F007N

Products Overview

- IPS full-view high brightness LCD screen to upgrade brightness angle and parameters.
- Conformal coating on the main-board to adapting to various harsh environment.
- 4 x serial ports, 1x Ethernet port, strong expansion capability.
- Powerful configuration software with rich library and strong functions.
- PVC enclosure, lightweight and high reliability.
- Embedded buckle design, easy to install.

Products Appearance

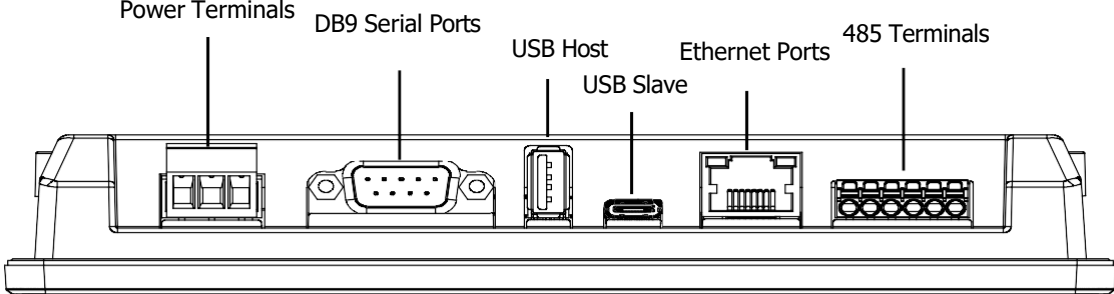
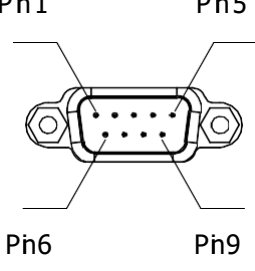
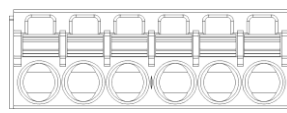
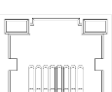


Products Specifications

Hardware version		2.0	3.x
Hardware Parameters	Display	7" 16:9 TFT LCD touch screen with wide view	
	Resolution	1024×600	
	Color	24-bit	
	Brightness	350 cd/m²	
	Backlight	LED	
	LCD Life	50000 hours	
	Touch Screen	Glass+Glass Projection multi point capacitive touch screen	
	CPU	600MHz ARM Cortex-A8	1.2GHz ARM Cortex-A7
	Memory	128M DDR3 + 128M Flash	256M DDR3+4G EMMC
	RTC	Built-in	
	Ethernet	10M/100M self-adaptive	
	SD Card	Supporting	
	USB Port	1 USB Type C port, 1 USB Host 2.0 port	
	Program Downloading	USB Slave Port/U-disk /Ethernet	
	Serial Ports	COM1: RS232/RS485/RS422 COM2/COM4: RS485 COM3: RS232	
Electrical Specifications	LCD Viewing Angle (T/B/L/R)	85'/85'/85'/85'	
	Rated Power	< 6W	
	Rated Voltage	DC24V, working range: DC 9V~28V	
	Power supply protection	With lightning surge protection	
	Allowable power-off time	< 5mS	
Environment Specifications	Certification	CE: Comply with EN61000-6-2:2005, EN61000-6-4:2007 standards RoHS: Comply with RoHS EMC: Lightning surge±1KV, group pulse±2KV Electrostatic contact 4KV, air discharge:8KV	
	Working Temperature	-10~60°C	
	Storage Temperature	-20~70°C	
	UV-Proof	Working in strong ultraviolet environment (such as direct sunlight) is prohibited.	
	Environment Humidity	10~90%RH (Non condensing)	

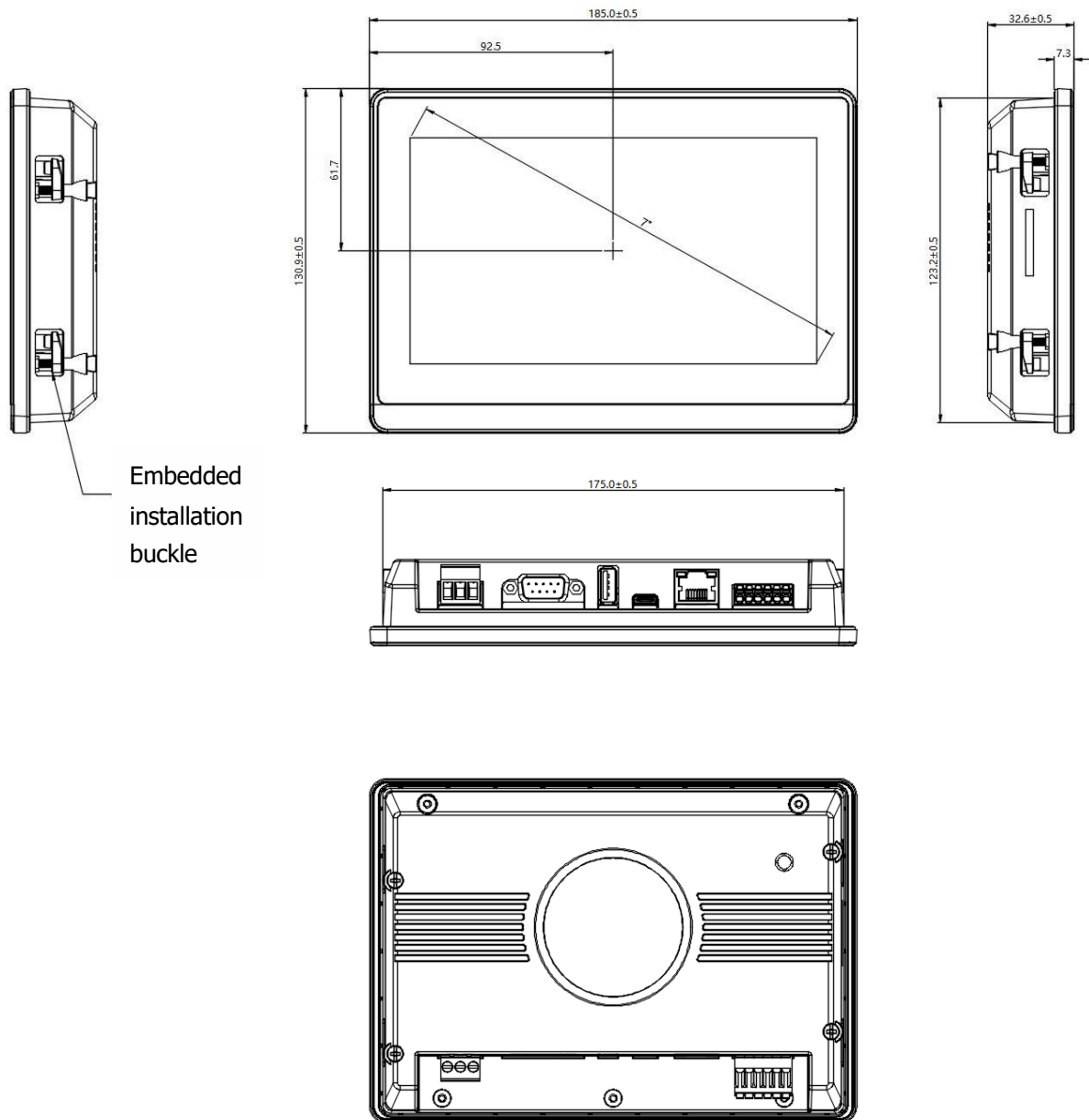
	Anti-vibration	10~25Hz (X,Y,Z direction 2G/30 minutes)
	Cooling	Natural Cooling
Mechanical Parameters	Protection	Front panel: IP65 (suitable for whole cabinet installation) Rear shell: IP20.
	Mechanical Structure	ZINC+ engineering plastics
	Panel Cutout	178mm×125mm
	Dimension	185.1mm×130.9mm×32.6mm
	Weight	About 600g

Wiring Definition

		
Power Terminals (Pin1~3 from left to right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial Ports		
	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~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-DISC and scanner etc.
USB Slave		
	USB Type C	Used for software program downloading and debugging.
Ethernet Ports		
	RJ45	Used for Ethernet setup with controller or used for server connection.

Size (mm*mm)

F007N



178mm (±1.0mm) *125mm(±1.0mm)