

FLEXEM——Resistive HMI 4000 Series

Module: FE4070CE

Overview

- Plastic enclosure, low cost, high reliability.
- The main board is treated with a special coating (three anti-paint) to adapt to harsh environment.
- High resolution, high brightness, LED backlight, More energy saving and environmental protection.
- The USB host port supports U disk to storage and download data.
- 4-way serial port, more powerful expansion function.
- New configuration software, rich library, powerful features.

Appearance











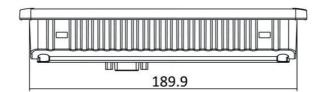


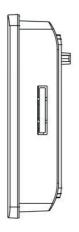
Specifications

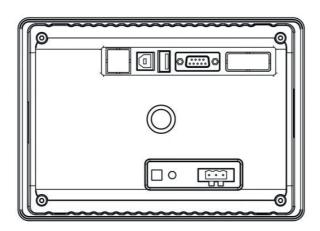
Display				
Colors		Display	7" 16:9 TFT LCD	
Brightness 360 cd/m²		Resolution(WxH)	800×480	
Backlight LED LCD Life 50000 hours Touch Panel 4 wires resistive touch screen CPU 600MHz ARM Cortex-A8 Memory 128M Flash + 128M DDR3 RTC Built in SD Card Port Available Ethernet 10M/100M Adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) Power Consumption < 10W Input Power DC24V, Working Range DC 9V~28V Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS CE & ROHS EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature 2-0~60°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×145mm×44.5mm		Colors	24-bit	
LCD Life 50000 hours		Brightness	360 cd/m ²	
Touch Panel 4 wires resistive touch screen CPU 600MHz ARM Cortex-A8 Memory 128M Flash + 128M DDR3 RTC Built in SD Card Port Available Ethernet 10M/100M Adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) 50'/70'/70'/70' Input Power Consumption 10 C24V, Working Range DC 9V~28V Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS Complied with EN61000-6-2:2005, CE & RoHS EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±ZKV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature 0~50°C Storage Temperature 10~20+Br (no condensate) Vibration Endurance 10~25+Br (Nr, Nz, Nz, Vz, Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Backlight	LED	
CPU G00MHz ARM Cortex-A8 Memory 128M Flash + 128M DDR3 RTC Built in SD Card Port Available Ethernet 10M/100M Adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) 50'/70'/70'/70' Input Power DC24V, Working Range DC 9V~28V Power Consumption 10W Input Power DC24V, Working Range DC 9V~28V Power Potection Protected from thunderstrike and surging Power Down Allowed 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Environmental Specifications Operating Temperature 0~50°C Storage Temperature 0~50°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		LCD Life	50000 hours	
Hardware Parameter Memory 128M Flash + 128M DDR3		Touch Panel	4 wires resistive touch screen	
Parameter RTC Built in SD Card Port Available Ethernet 10M/100M Adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: R\$232/R\$485/R\$422 COM3/COM4: R\$232 LCD viewing angle (T/B/L/R) Power Consumption < 10W Input Power Potection Protected from thunderstrike and surging Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Storage Temperature -20~60°C Anti-UV Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		CPU	600MHz ARM Cortex-A8	
SD Card Port Available		Memory	128M Flash + 128M DDR3	
Ethernet 10M/100M Adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) 50'/70'/70' Power Consumption < 10W Input Power DC24V, Working Range DC 9V~28V Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm	Parameter	RTC	Built in	
USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) 50'/70'/70'/ Input Power DC24V, Working Range DC 9V~28V Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS CE & RoHS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		SD Card Port	Available	
Download Project USB Slave Port/U-disk/Ethernet /SD Card COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) Power Consumption < 10W Input Power DC24V, Working Range DC 9V~28V Power Protection Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Anti-UV Rechanical Index Degree of Protection Power Down Allowed 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Ethernet	10M/100M Adaptation	
COM Port COM1/COM2: RS232/RS485/RS422 COM3/COM4: RS232 LCD viewing angle (T/B/L/R) Power Consumption < 10W Input Power Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		USB Port	USB Slave 2.0 Port*1, USB Host 2.0 Port*1	
COM Port COM3/COM4: RS232		Download Project	USB Slave Port/U-disk/Ethernet /SD Card	
COM3/COM4: RS232		OOM Deat	COM1/COM2: RS232/RS485/RS422	
CT/B/L/R) S0770770705		COWI POIL	COM3/COM4: RS232	
CT/B/L/R) Power Consumption < 10W		LCD viewing angle	F01/701/701	
Input Power DC24V, Working Range DC 9V~28V		(T/B/L/R)	00//0//0//0	
Electrical Specifications Power Protection Protected from thunderstrike and surging Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Mechanical Index Mechanical Index Power Protection Protected from thunderstrike and surging Protected from thunderstrike and surging Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Degrating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Power Consumption	< 10W	
Power Down Allowed < 5mS		Input Power	DC24V, Working Range DC 9V~28V	
Specifications Power Down Allowed < 5mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Anti-UV Specifications Operating Humidity Operating Humidity Vibration Endurance Cooling Natural Air Cooling Degree of Protection Enclosure Panel Cutout Size Dimension Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV O~50°C Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in strong ultraviolet light (such as direct sunlight) Not suitable to work in Strong ultraviolet light (such as direct sunlight) Degree of Protection 10~205Hz (X,Y,Z direction 2G/30 minutes) Enclosure Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Power Protection	Protected from thunderstrike and surging	
Compiled with EN61000-6-2:2005, CE & RoHS EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature Storage Temperature Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Power Down Allowed	< 5mS	
EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature 0~50°C Storage Temperature -20~60°C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm	Specifications		Complied with EN61000-6-2:2005,	
Environmental Specifications Anti-UV Coperating Humidity Vibration Endurance Cooling Degree of Protection Mechanical Index Operating Temperature -20~60°C Not suitable to work in strong ultraviolet light (such as direct sunlight) 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Front IP65(with NEMA panel), Back IP20 Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		CE & RoHS	EN61000-6-4:2007, RoHS, Surge Immunity:±1KV,	
Environmental Specifications Environmental Specifications Anti-UV Doperating Humidity Vibration Endurance Cooling Degree of Protection Mechanical Index Storage Temperature -20~60°C Not suitable to work in strong ultraviolet light (such as direct sunlight) 10~90%RH (no condensate) 10~25Hz (X,Y,Z direction 2G/30 minutes) Natural Air Cooling Front IP65(with NEMA panel), Back IP20 Enclosure Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm			EFT:±2KV, ESD:4KV, Air:8KV	
Environmental Specifications Anti-UV Anti-UV Degrating Humidity Vibration Endurance Cooling Degree of Protection Mechanical Index Mot suitable to work in strong ultraviolet light (such as direct sunlight) 10~90%RH (no condensate) 10~25Hz (X,Y,Z direction 2G/30 minutes) Natural Air Cooling Front IP65(with NEMA panel), Back IP20 Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm	1	Operating Temperature	0~50°C	
Environmental Specifications Anti-UV as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Storage Temperature	-20~60°C	
Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Anti-UV		
Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30 minutes) Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm			direct sunlight)	
Cooling Natural Air Cooling Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Operating Humidity	<u> </u>	
Degree of Protection Front IP65(with NEMA panel), Back IP20 Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Vibration Endurance	10~25Hz (X,Y,Z direction 2G/30 minutes)	
Mechanical Index Enclosure Engineering plastic Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Cooling		
Mechanical Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Degree of Protection	<u> </u>	
Mechanical Panel Cutout Size 192mm×138mm Dimension 204mm×145mm×44.5mm		Enclosure		
Dimension 204mm×145mm×44.5mm		Panel Cutout Size		
Weight About 600g		Dimension	204mm×145mm×44.5mm	
		Weight	About 600g	

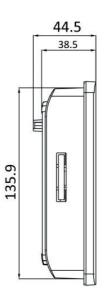
Wiring definition

Power Terminal (Pin	Power Terminal (Pin1~3 from left to right)					
		Pin1	FG			
		Pin2	0V			
		Pin3	DC24V			
DB9 Serial Terminal(COM1/COM3)						
	Pin5	Pin1	Rx-(B)			
Pin1		Pin2	RxD (COM1 RS232)			
		Pin3	TxD (COM1 RS232)			
		Pin4	Tx-			
		Pin5	GND			
		Pin6	Rx+(A)			
Pin6	Pin9	Pin7	RxD (COM3 RS232)			
ГШО		Pin8	TxD (COM3 RS232)			
		Pin9	Tx+			
(COM2/COM4)						
		Pin1	Rx-(B)			
Pin1	Pin5	Pin2	RxD (COM2 RS232)			
	<i></i>	Pin3	TxD (COM2 RS232)			
		Pin4	Tx-			
		Pin5	GND			
		Pin6	Rx+(A)			
Pin6	Pin9	Pin7	RxD (COM4 RS232)			
1 11 10	<u>(11</u> 13	Pin8	TxD (COM4 RS232)			
		Pin9	Tx+			
USB Host						
		USB Type A	Used to connect U disk, scan code gun and other peripherals			
USB Slave						
		MicroUSB	Used to download programs and debug			
Ethernet Port						
	1	RJ45	Used to set Ethernet with controller			
["/		1.0.10	or connect to server			









Panel Cutout (W*H): 192*138

Contact Us

Shanghai (R&D Center)

Address Center, Floor 11, Block B, INNO

No.298, Guoxia Road,

Yangpu District, Shanghai

Telephone +86-21-68683993 Fax +86-21-65107569

Suzhou

Address Room 915, Ricky Building

No.668, Yuting Avenue, Suzhou Industrial Park

Telephone +86-512-69833996

Shenzhen (Factory)

5 th Floor, NOdressilding, Lanyun Science Park, Tangtou Road, Shiyan Town, Baoan District, Shenzhen, China

> Telephone +86-755-27610682 +86-755-27629895 Fax

Wuxi

AddressRoom 1603, Taihu Mingzhu Development Building, NO.1890 Taihu West Road, Binhu Distric, Wuxi City

Telephone+86-18505101982

Beijing

Hangzhou

AddressFloor 1, Unit LEO, Block 5, Singapore Science Park,

Address Room 2008, Building 1,NO.93 Road6th,XiashaEconomic Development Zone, Hangzhou Jianguo Road, Chaoyang District, Beijing (Wanda Plaza), China.

Telephone +86-10-58204608 Fax +86-10-58204608