

General Information

Item	Description	Standard				
Ambient temperature	0°C~+50°C					
Storage temperature	-20°C~+60°C					
Ambient humidity	10~85%RH, without dew condensation					
Storage humidity	10~85%RH, without dew condensation					
Vibration resistance	Occasional Vibration		Counts	10 times each direction (X, Y and Z)	IEC 61131-2	
	Frequency	Acceleration				Amplitude
	5≤f<9Hz	-				3.5mm
	9≤f≤150Hz	9.8m/s ²				-
	Continuous Vibration					
	Frequency	Acceleration				Amplitude
5≤f<9Hz	-	1.75mm				
9≤f≤150Hz	4.9m/s ²	-				
Shock resistance	Maximum shock acceleration: 147m/s ² (15g) Authorization time: 11ms Pulse waveform: Half-sine wave pulse (3 times each of X,Y and Z)			IEC 61131-2		
Noise resistance	Square wave impulse noise	DC: ±1,200V		LS ELECTRIC Standards		
	Electrostatic discharge	±4kV (Contact discharge)		IEC 61131-2, IEC 61000-4-2		
	Radiated electromagnetic field noise	80 ~ 100MHz, 10V/m		IEC 61131-2, IEC 61000-4-3		
	Fast transient/Burst noise	Power module: 2.4 kV, Communication interface: 1.2kV		IEC 61131-2, IEC 61000-4-4		
Operating ambience	Free from corrosive gas and excessive dust					
Altitude	2,000m (6,562ft) or below					
Pollution degree	2 or under					
Cooling method	Natural air-cooling					

Specifications

Item	eXP20-TTA/DC,CERTI	eXP20-TTA/DC	eXP30-TTA(BI)/DC	eXP30-TTE/DC	eXP40-TTE/DC	eXP40-TTA(BI)/DC	eXP60-TTA(BI)/DC
Display type	TFT color LCD						
Screen size	10.9cm (4.3inch)		10.9cm (4.3inch)		10.9cm (4.3inch)		25.9cm(10.2inch)
Display Resolution	480 x 272 pixel		640 x 480 pixel		800 x 600 pixel(WVGA)		
Color indication	24-bit Color(16.7M)		16-bit Color(65,536 Color)		24-bit Color(65,535 Color)		16-bit Color(65,536)
Indication degree	Left/Right:60 deg. Upper:40 deg. Lower:60 deg.						Left/Right:55 deg. Upper:35 deg. Lower:55 deg.
Backlight	LED Type (Supports backlight auto-off function)						
Backlight duration	30,000 hours				20,000 hours		
Touch panel	4-Wire Resistive, analog						
Audio output	Magnetic buzzer (85dB)						
Process	i.MX283(454MHz)						
Memory	Flash	128MB(Screen 64MB)					
	Operation RAM	128MB					
	Backup RAM	128KB					
Backup data	Date/Hour data, Logging/Alarm/Recipe data and nonvolatile device						
Battery duration	Approx. 3 years (Operating ambient temperature of 50°C)						
RTC	Time error Approx. 3 sec/1day(Operating ambient temperature of 25°C)						
Ethernet	1 channel, IEEE802.1a, 10Base-T/100Base-TX			-		1 channel, IEEE802.1a, 10Base-T/100Base-TX	
USB Host	1 channel, USB 2.0 Host (mouse, keyboard, printer and USB memory driver is available)						
USB Device	-			1 channel, USB 2.0 Device (for download and upload project)			
RS-485, RS-232C	1channel, RS-232C (DSUB 9/Male Type)			2channels, RS-485, RS-232C (DSUB 9/Male Type)			
RS-422/485	1channel, RS-422/485 (DSUB 9/Male Type)			1channel, RS-422/485 mode (Terminal Type)			
Multi-language	Up to 12 language simultaneously						
Animation	GIF format is available						
Recipe	available						
Data logging	available						
Script executor	available						
Certifications	CE, UL, KC, UL Type4X (Separate product, CERTI)						
Protection standard	IP66						
Dimension (mm)	128x102x32		165.0x132.5x36.1		208.0 x 154.0 x 44.4		276.0 x 218.0 x 44.4
Panel cut (mm)	165.0 x 132.5 x 36.1		156.0 x 123.5		192.0 x 138.0		260.0 x 202.0
Rated voltage	DC24V						
Power consumption (W)	4.6W		7.2W		6.5W		10W
Weight(Kg)	0.3		0.42	0.39	0.62	0.63	1.08