

GP2500-TC*1* Specifications (End of sale: 2012/12/28)

Functional Specifications

Model		GP2500-TC11 →Recommended Substitute	GP2500-TC41-24V →Recommended Substitute
Type		TFT Color LCD	
Display Colors		256 colors (no blink)/ 64 colors (3-speed blink) (software control)*1	
Backlight		CCFL (Service life: more than 50,000 at 24 hr. operation)	
Resolution		640 × 480 pixels	
Effective Display Area (mm)		211.2(W) × 158.4(H)	
Brightness Control		4 levels of adjustment available via touch panel	
Contrast Control		-	
Language Character Sets		ASCII: (Code page 850) Alphanumeric (incl. European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji : 6962 (JIS Standards 1 & 2) Korean: (KSC5601 - 1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts	
Text	8 × 8 dots	80 char. × 60 rows	
	8 × 16 dots	80 char. × 30 rows	
	16 × 16 dots	40 char. × 30 rows	
	32 × 32 dots	20 char. × 15 rows	
Character Sizes*2		8 × 8 dots, 8 × 16 dots, 16 × 16 dots, 32 × 32 dots	
Font Sizes		Width can be expanded 1 to 8 times. Height can be expanded 1/2*3, 1 to 8 times.	
Application Memory		FLASH EPROM 4MB	
Data Backup Memory		256KB SRAM - uses lithium battery*4	
Touch Panel Resolution		32 x 24 keys/ screen - 1 or 2 point touch	
External Interface	Serial Interface	Asynchronous Transmission Method: RS232C/RS422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2400 to 115.2kbps, 187.5Kbps*5	
	Expansion Serial Interface	RS-232C Asynchronous Transmission Method: RS232C,	

		Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Odd or Even, Data Transmission Speed: 2400 to 38400 bps
	Network Interface	IEEE802.3, 10BASE-T
	CF Card Interface	1 Slot
	External CF Card Interface	CF Card Front Maintenance Unit Connector
	Sound Output Interface	External Speaker Connection (Terminal Block) Monaural 1CH Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz) Sound Line Out Output 2.7Vp-p (Rated Load: 10kΩ) Wire Gauge: AWG28 to AWG16
	AUX Input/Output Interface	Remote Reset Input Remote Reset Input: 1 point, Input Voltage: DC24V ±10%, Input Current: 4mA (TYP), Min. Input Pulse Width: 2ms Operating Voltage: (When ON) Min. DC21.1V/ (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation
		Output Output: 3 Points (RUN Output: 1 point, System Alarm Output: 1 point, External Buzzer Output: 1 point) Rated Voltage: DC24V, Max. Rated Current: 50mA/ point, Wire Gauge: AWG28 to AWG16
	Printer Interface	Compatible with NECPC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet, PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6
	Tool Connector	Asynchronous TTL level nonprocedure command I/F Used for transferring data between the GP application software and the GP. Used for data transfer with the 2-Port feature. Used for a variety of devices, including a bar-code reader.

1. Changing the "Colors" setting to "256 colors" will disable the blink feature on all your project screens. If you wish to use the blink feature, do not change this setting to "256 colors."
2. The display font will differ depending on which (language) character, or which size you select.
3. Only available when using "1/2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese and Korean characters.)

4. A Lithium battery's lifetime is:
- 10 years when the battery's ambient temperature is under 40°C
 - 4.1 years when the battery's ambient temperature is under 50°C
 - 1.5 years when the battery's ambient temperature is under 60°C
- When used for backup:
- Approximately 60 days, with a fully charged battery
 - Approximately 6 days, with a half-charged battery
5. SIEMENS SIMATIC S7-200/300/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.
6. Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows and DOS drivers can be used. For details, contact your local Pro-face distributor.

[Page Top](#)

General Specifications

Model		GP2500-TC11 →Recommended Substitute	GP2500-TC41-24V →Recommended Substitute
Electrical	Rated Voltage	AC100V - 240V	DC24V
	Rated Voltage Range	AC85 - 265V	DC19.2 - 28.8V
	Power Consumption	50VA or less (ACIN 100V) 85VA or less (ACIN 240V)	50W or less
	Allowable Voltage Drop	1 cycle or less (Actual drop must be less than 1 second)	10ms or less
	Voltage Endurance	AC1500V, 20mA for up to 1 minute (between charging and FG terminals)	AC1000V, 20mA for up to 1 minute (between charging and FG terminals)
	Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	20MΩ or higher at DC500V (between charging and FG terminals)
Environmental	Ambient Operating Temperature*1	0 - 50°C	
	Storage Temperature	-20 - 60°C	
	Ambient Humidity	10 - 90% RH (non-condensing wetbulb temperature 39°C or less)	
	Storage Humidity	10 - 90% RH (non-condensing wetbulb temperature 39°C or less)	
	Vibration Resistance	Compatible with IEC61131-2 When vibration is NOT continuous:	

		10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s ² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s ² X, Y, Z directions for 10 times (80min.)	
	Noise Immunity	Noise Immunity: 1500Vp-p Pulse Duration: 1μs Rise Time: 1ns (via noise simulator)	Noise Immunity: 1000Vp-p Pulse Duration: 1μs Rise Time: 1ns (via noise simulator)
	Electrostatic Discharge Immunity	6kV (complies with IEC 61000-4-2 Level 3)	
	Corrosive Gases	Free of corrosive gasses	
Structural	Grounding	100Ω or less, or your country's applicable standard	
	Ratings	Equivalent to IP65f (JEM1030), NEMA#250 TYPE 4X/12*2	
	External Dimensions (mm)	317W × 243H × 58D	
	Weight	1.2kg (2.6lb) or less	
	Cooling Method	Natural air circulation	

1. When installing the GP in a cabinet or enclosure, the term “ambient operation temperature” indicates the cabinet or enclosure’s internal temperature.

The LCD displays may occasionally blur when they are used for hours at over 40°C ambient operating temperature. This is a temporary phenomenon. After the temperature returns to normal, the display will be restored to normal. The GP’s operation will not be affected even though the display is blurred.

2. The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

[Page Top](#)

Dimensions

