



An aluminum body for superb cooling and dust resistance.

## GLC2300L Monochrome

**5.7" HMI with distributed I/O and industrial network connectivity support**

The GLC2300 is a powerful integrated HMI/PLC one box solution. This combination streamlines machine design by capitalizing on integrating information, display and control in one unit while reducing installation and long term maintenance costs. This unit is ideal for specialty OEM machines where space and costs are driving factors.

The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation, etc. for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

GLC2300-LG41-24V

### FEATURES

- 5.7 Inch Touch Screen
- Monochrome LCD
- 320 x 240 Resolution
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- RS-232/422 Com Port
- 1 RS-232 Com Port
- 2 CH Flex Network Master Interface
- Optional Communication Module Interface

### INFORMATION

**Powerful secure data collection and sharing**



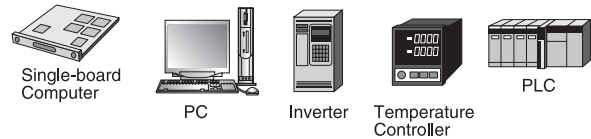
**Various HMI software solutions available to match your needs:**

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

### COMMUNICATION

**Versatile interfaces support flexible and expanding control system needs**

**SIO 1ch (COM1)** To connect various controllers



**SIO 2ch (COM2)**  
Serial devices, such as single or two-dimensional bar code readers

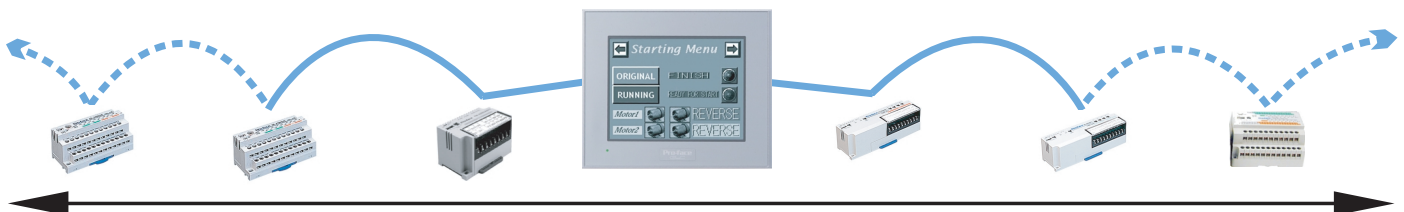
**Industrial Network Connectivity (optional)**  
 PROFIBUS (Slave or Master)  
 CANopen (Slave)  
 DeviceNet (Slave or Master)  
 Modbus Plus

### CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

**GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.** Mix and match any combination of analog and discrete I/O modules to meet your application needs.

**Flex Network Module Types:**

- 8, 16, 32 and 64-Point Discrete
- Hi-Speed Counter
- 4 Ch. and 2 Ch. Analog In or Out
- Single-Axis Positioning



(400m Max)

**Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.**

# GLC2300L SPECIFICATIONS

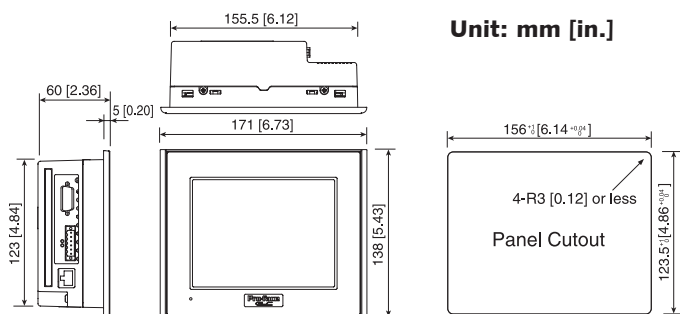
## FUNCTIONAL SPECIFICATIONS

Model	<b>GLC2300-LG41-24V</b>	
Display	Type	Monochrome LCD
	Colors	Black and White, 2 levels of gray/Black and White, 8 levels of gray (color switching done via software)
	Backlight	CCFL (average lifespan of 50,000 hours min. with continuous operation) User replaceable
	Resolution	320 x 240 pixels
	Effective Display Area (mm)	W115.2mm [4.54in.] x H86.4mm [3.40in.]
Memory	Brightness Control	4 levels of adjustment available via touch panel
	Application	2 MB FLASH FEPRM
Control Memory	Data Backup	256KB SRAM - uses a lithium battery
	Program Area	128KB FLASH EPROM
Interfaces	Variable Area	32KB SRAM - uses a lithium battery
	Serial (COM 1) Interface	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Exp. Serial (COM 2) Interface	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps
	Network Interface	Ethernet IEEE802.3, 10BASE-T
	Tool Connector Port	8-pin mini Din for programming/bar code reader
	CF Card Interface	1 slot (CompactFlash™)
	Expansion Interface	Yes - for optional communication modules
Flex Network Interface	For connecting to Flex Network distributed I/O modules	

## GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24VDC
	Rated Voltage Range	19.2VDC to 28.8VDC
	Power Consumption	22W or less
Environmental	Ambient Operating Temp.	0°C to 50°C (Operating temperature refers to the panel external - GLC unit front face - and panel internal temperatures)
	Storage Temperature	-20°C to 60°C
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
Structural	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s <sup>2</sup> When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s <sup>2</sup> X, Y, Z direction for 10 times (80min.)
	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)
	Certifications	EN55022 Class A, EN50082-2, UL60950, UL1604, UL Class 1, Div 2
	External Dimensions	W171mm[6.73in.] x H138mm [5.43in.] x D60mm [2.36in.]
	Weight	1.2kg (2.65lb) or less (main unit only)

## EXTERNAL DIMENSIONS



## OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPJ-ABD-201*	AB Data Highway Plus interface module
QPJ-ABR-201*	AB 1771 Remote I/O interface module
<b>*PSM-CONV00</b>	<b>Required adapter when using QPJ comm. modules</b>

## ORDERING INFORMATION

### ORDER NUMBER

GLC2300-LG41-24V

### DESCRIPTION

5.7" Monochrome Touch Screen HMI with control

### OPTIONAL ACCESSORIES

PS300-DF00	Screen protection sheets, qty 5
PS300-BU00	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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# California Proposition 65 Warning—Lead and Lead Compounds

## Advertencia de la Proposición 65 de California—Plomo y compuestos de plomo

## Avertissement concernant la Proposition 65 de Californie—Plomb et composés de plomb

**⚠ WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ ADVERTENCIA:** Este producto puede exponerle a químicos incluyendo plomo y compuestos de plomo, que es (son) conocido(s) por el Estado de California como causante(s) de cáncer y defectos de nacimiento u otros daños reproductivos. Para mayor información, visite : [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ AVERTISSEMENT:** Ce produit peut vous exposer à des agents chimiques, y compris plomb et composés de plomb, identifiés par l'État de Californie comme pouvant causer le cancer et des malformations congénitales ou autres troubles de l'appareil reproducteur. Pour de plus amples informations, prière de consulter: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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