

From Simple HMI to
Integrated Control

Advanced
Performance HMI

Specialty HMI
Instruments

HMI with Integrated
Control

Simple HMI

HMI and Control
Enabling Software



Coming Together: Simple HMI to Integrated Control

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From Simple HMI to Integrated Control

	FACTORY GATEWAY	ST SERIES	GP2001, GP37W2 AND HAND HELD
DESCRIPTION	Multi-Protocol Serial to Ethernet Converter	Small Touch Screen HMI with F-Keys	Standard Touch Screen HMI, and handheld HMIs
CONNECTIVITY	1 RS-232C/422, 1 Ethernet port	1 RS-232C, or 1 RS-422, or 1 RS-485 (MPI ready)	1 RS-232C/RS-422 and tool port. GP2001 supports optional communication module
DISPLAY	None, full power of HMI data capabilities without local display	3.8" Amber display with 8 levels of shading	Monochrome, blue mode, and STN, TFT, 256 color
APPLICATION	Peer-to-peer protocol converter. Factory retrofits. Connects serial based devices to new Ethernet networks for data collection and data sharing.	Full graphical HMI at text display pricing. Simplifies and lowers installation costs of small push button and pilot light panel applications.	Traditional OEM machine HMI monitoring applications. Portable Diagnostic test stands via handheld units. Low cost 6" blue mode screen for general purpose HMI applications. Bar code systems.

FEATURES



GP-PRO VERSION 3

- Application Download via tool port only
- Application Download via tool port (serial) over Ethernet

GP2000 SERIES

Full featured Touch Screen HMI with Ethernet

Dual RS-232C serial ports, RS-422, supports network communication modules, Ethernet, CompactFlash

Monochrome, STN, TFT and 256 color

Ethernet based HMI monitoring applications. Video imaging and image capturing. Data logging, trending. Recipe. Bar Code readers, sound playback.

LT SERIES

Touch Screen HMI with integrated control and local or distributed I/O

1 RS-232C/RS-422 (Type -C only) or DeviceNet™ (Type-D only), and Tool Port

5.7" Blue Mode Monochrome, STN color

Replace small number of push buttons, pilot lights and a small PLC. Saves panel space and reduces labor cost. Built-in I/O increases OEM efficiency.

GLC2000 SERIES

Touch Screen HMI with integrated control and distributed I/O

1 RS-232C/RS-422 and 1 RS-232C, Ethernet and Tool port

Black & white Monochrome (5.7"), and TFT (5.7", 7.4", 10.4", 12.1")

All of the GP2000 features plus Integrated Control. Saves panel space and reduces labor cost. Replaces "roll-your-own" embedded controllers or PLC/HMI 2-piece solutions.



FEATURES

CONTROL (LADDER LOGIC)

Feature Matrix

	Factory Gateway	ST Series	GP2001	GP37W2	Hand Held	GP2000	LT Series	GLC2000
Touch Screen	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Screen Sizes	N/A	3.8"	5.7", 7.4", 10.4", 12.1"	5.7"	5.7", 6.5"	5.7", 7.4", 10.4", 12.1"	5.7"	5.7", 7.4", 10.4", 12.1"
Screen Resolutions	Remote via GP-Web	320x240	320x240, 640x480, 800x600	320x240	320x240, 640x480	320x240, 640x480, 800x600	320x240	320x240, 640x480
Monochrome or number of colors	Remote via GP-Web	Amber	Black and White, STN 64 Colors, TFT 256 colors	Blue White	Black and White, STN 64 Colors, TFT 256 colors	Black and White, STN 64 Colors, TFT 256 colors	Blue and White, or STN 64 colors	Black and White, TFT 256 colors
Serial Port 1	25 pin RS-232C/RS-422	9 pin RS-422 (ST400), 9 pin RS-232C (ST401), 9pin RS-485 (MPI) (ST402)	25 pin RS-232C/RS-422	25 pin RS-232C/RS-422	25 pin RS-232C/RS-422	25 pin RS-232C/RS-422	25 pin RS-232C/RS-422 (Type-C only)	25 pin RS-232C/RS-422
Expansion Serial Port	No	9 pin RS-422 (ST402)	No	No	No	9 pin RS-232C	No	9 pin RS-232C
10-baseT Ethernet	Yes	No	No	No	No	Yes	No	Yes
CompactFlash Socket	No	No	Yes	No	Yes	Yes	No	Yes
Data Logging	Yes, via Ethernet	No	Yes, via CF	No	Yes, via CF	Yes, via Ethernet or CF	No	Yes, via Ethernet or CF
Sound Output	No	Internal Buzzer	Internal Buzzer	Internal Buzzer	Internal Buzzer	Internal Buzzer, External audio output (GP2400, 2500, 2600)	Internal Buzzer	Internal Buzzer, External audio output (GLC2400, 2500, 2600)
Parallel Printer Port	No	No	Yes	No	No	Yes	No	Yes
Bar Code Input	No	Yes, via Tool Port	Yes, via Tool Port	Yes, via Tool Port	No	Yes, via Tool Port or Expansion Serial Port	Yes, via Tool Port	Yes, via Tool Port or Expansion Serial Port
Video Mix Unit Support	No	No	No	No	No	Yes, GP2500T, 2600T	No	Yes, GLC2500T, 2600T
GP-PRO HMI/Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Logic Editor Support	No	No	No	No	No	No	Yes	Yes
Pro-Server/GP Web Support	Yes	No	No	No	No	Yes	No	Yes
Built in I/O	No	No	No	No	No	No	Yes, Type-A, B+, H	No
Flex Network Interface	No	No	No	No	No	No	Yes, Type-B, B+, C	Yes
DeviceNet™ Master	No	No	No	No	No	No	Yes, Type-D	Yes, but optional module
Ladder Logic	No	No	No	No	No	No	Yes	Yes

HMI with Integrated Control

GLC2000 Series: Advanced HMI and Control in one box



The GLC2000 Series of Graphic Logic Controllers offer advanced HMI features with integrated PLC functionality. These all-in-one units are the combination of display, information and ladder logic in one package. By using either the Pro-face brand, Flex Network I/O or DeviceNet™ I/O, manufacturer can control and monitor field devices right from the display. Collecting data and transferring it to a multitude of business systems via Ethernet is simple via Pro-Server Software.

- ||| All-in-one HMI and control
- ||| Data collection via Ethernet
- ||| 100's of drivers for PLC's, temperature controllers, and drives
- ||| Flex Network I/O interface
- ||| Bar code reader support

LT Series: Low cost HMI and Control with built-in I/O



The LT Series offers simple HMI features with integrated control. Low cost or built-in I/O are a must for any price sensitive project. The flexibility of adding Pro-face brand, Flex Network I/O or DeviceNet I/O can tackle most control applications.

- ||| All-in-one HMI and control
- ||| Built-in I/O or interface to Flex Network I/O, DeviceNet I/O
- ||| Low cost
- ||| Bar code reader support

Flex Network: I/O for GLC2000 or LT Series



The distributed I/O architecture, Flex Network, gives GLC2000 or LT Series the ability to respond to real world events. Analog input, analog output, discrete input, discrete output, high-speed counter and single-axis positioning are all possible with the Flex Network line of I/O.



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Advanced Performance HMI

GP2000 Series: Ethernet, Multimedia, Open Connectivity HMIs



GP2000 Advanced Performance HMI with audio, video playback and data storage.

GP2000 Series is loaded with HMI features for networking, image capture, live video and audio playback command/event acknowledgement. GP2000 models are available in 6", 7.4", 10.4" and 12.1" displays. A selection of screen types include: monochrome, 64 color STN and 256 color TFT displays.

Applications can be downloaded to the GP2000 over Ethernet or through the local tool port. GP2000 models interface to standard industrial networks including, Ethernet, DeviceNet, Profibus, Modbus, plus RS232/RS422 serial protocols. The local printer port provides on demand report generation. Capture images to CompactFlash for machine system diagnostics.

- ||| Live Video and Image capturing
- ||| CompactFlash data storage, logging and report generation
- ||| Supports over 200 industrial protocols
- ||| Bar code reader support

GP2001 Series: Data Logging, Open Connectivity HMIs



GP2001 Series are mid-performance level HMIs. This series is similar to the GP2000 series but without Ethernet, audio or video capabilities. GP2001 series does include compact for data storage, an RS232/RS422 serial port and interfaces to standard industrial networks including DeviceNet, Profibus, Modbus, etc. with the use of an optional communication module. Screen sizes available include 6", 7.4", 10.4" and 12.1" displays.

Simplify your machine maintenance programs. The GP2001 series supports importing graphic images to aid in locating machine service panels, critical oil fittings, and can act as a diagnostic flowchart guide. Local printer support creates on demand report generation for maintenance personnel before and after a machine maintenance cycle.

- ||| CompactFlash data storage, logging and report generation
- ||| Import JPEG images to aid in locating machine components
- ||| Supports over 200 industrial protocols
- ||| Bar code reader support



GP2000/GP2001 Features available on various models

Simple HMI

ST Series: Full Graphical Text Display HMI



Graphical text display with six programmable function buttons

ST Series 3.8" amber touch screens are low cost multi-language graphical HMIs communicating to peripheral devices over RS232C, RS422 or RS485 serial networks. The ST Series reduces your installation and maintenance cost for panels that typically use a combination of text display with a few peripheral pushbuttons and pilot lights.

The ST Series provides fast re-configurable panels without removal or rewiring, providing noticeable savings on your maintenance budget. Compare the cost of a single panel cutout versus multiple cutouts and the ST Series immediately reduces your installation cost. Additionally, hard-wired mechanical components are prone to failure and are inflexible, resulting in high maintenance expenses.

- ||| Bar code reader support
- ||| Integrates pushbuttons and graphic display in one unit
- ||| Supported by a wide array of serial protocols
- ||| High visibility display

GP37W2: Low Cost Blue and White Graphical HMI



5.7" low cost full graphical HMI Touch Screen

The GP37W2 5.7" blue and white touch screen is intended for basic HMI applications. The unit includes the standard features of your basic HMI but with the benefit of a full array of serial communication protocol support. The GP37W2 communicates to PLCs and peripheral devices through an RS232C or RS422 serial network.

This low cost HMI is ideal for OEM's needing to offer an industrial interface for monitoring basic machine operations. Using GP-PRO software, interface screens can be created to provide a user friendly HMI interface for monitoring machine status, diagnostic tools, troubleshooting and daily machine maintenance requirements.

- ||| Bar code reader support
- ||| Supported by a wide array of serial protocols
- ||| Value add component for OEM equipment

Specialty HMI Instruments

GP2301H/GP2401H Series - Portable Handheld HMIs



GP2000 Hand Held

Portable HMIs for Maintenance Carts

The GP Series handheld units are 5.7" and 6.5" graphical HMIs. Units are available in monochrome and 256 color. Each unit includes a CompactFlash™ port for data storage and communicates to peripheral devices through an RS-232C or RS-422 serial protocol.

These handheld units are ideal for portable applications such as diagnostic test stands, maintenance carts, crane control, etc. Units are capable of implementing a sealed joystick function increasing reliability over mechanical joysticks susceptible to grease, grime and other contaminants.

- III Maintenance cart machine inspections
- III Full 3 contact E-stop implementation
- III Vibrate on alert or alarm
- III 3 position dead-man switch

Factory Gateway: Serial to Ethernet Protocol Converter

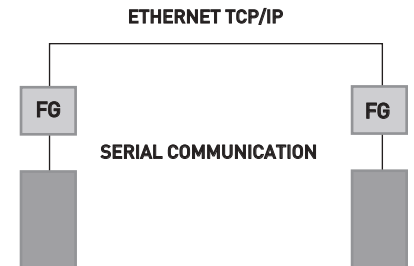
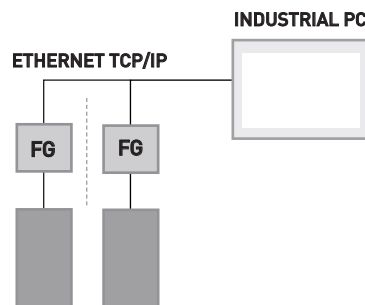


Interface your serial-based equipment on to your industrial Ethernet communication network

The Factory Gateway is a DIN rail mounted serial to Ethernet protocol converter. Each unit includes one RS-422/RS-232C serial port and one Ethernet port. The unit interfaces serial-based instruments to industrial grade Ethernet networks for data sharing, logging, and protocol conversion.

The Factory Gateway can be implemented as a peer-to-peer device. This is accomplished by transmitting data from one serial device through an Ethernet network to a second Factory Gateway that converts the data into the same or different serial protocol. This is an ideal instrument when trying to share data directly between two controllers without the use of an industrial PC.

- III Data gateway between different PLC manufacturer protocols
- III Integrate legacy serial instruments on to an Ethernet network
- III Peer-to-peer data sharing
- III Remote monitor serial equipment over Ethernet



Accessories and Options

GLC2000 GP2000/2001 System Structure



GLC2000, GP2000, or GP2001

Software GP-PRO/PBIII C-Package03



Download cable GPW-CB02 or CB03



Communication modules



CompactFlash™ cards



Video Mix Unit (GLC/GP2500, or 2600)



Flex Network I/O (GLC2000 or LT only)



LT, GP37W2, ST System Structure



LT, GP37W2, or ST

Software GP-PRO/PBIII C-Package03



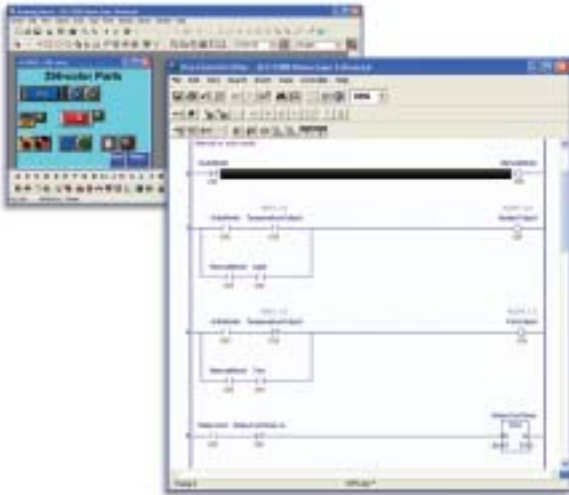
Download cable GPW-CB02 or CB03



Flex Network I/O (GLC2000 or LT only)

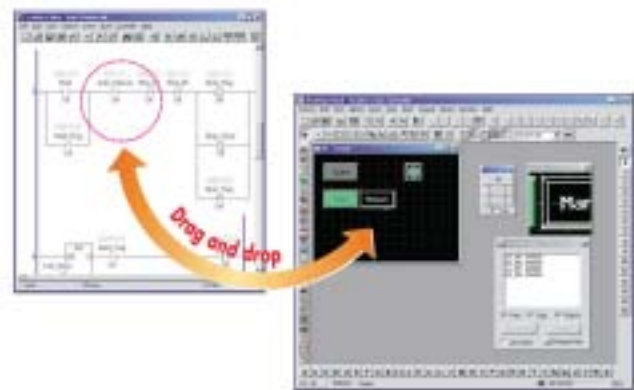


HMI and Control Enabling Software | GP-PRO



GP-PRO/PBIII C-Package03 (or GP-PRO, for short) is the HMI screen editor and logic program development software used to configure GLC2000, GP2000/2001, LT, Factory Gateway, ST and other series of products. One package fits all for configuring buttons, lights, alarms, and trending, as well as ladder logic and I/O configuration.

GP-PRO allows both HMI and ladder logic editors to be opened simultaneously. This allows drag-and-drop of objects between the two editors.



Partial list of features includes:

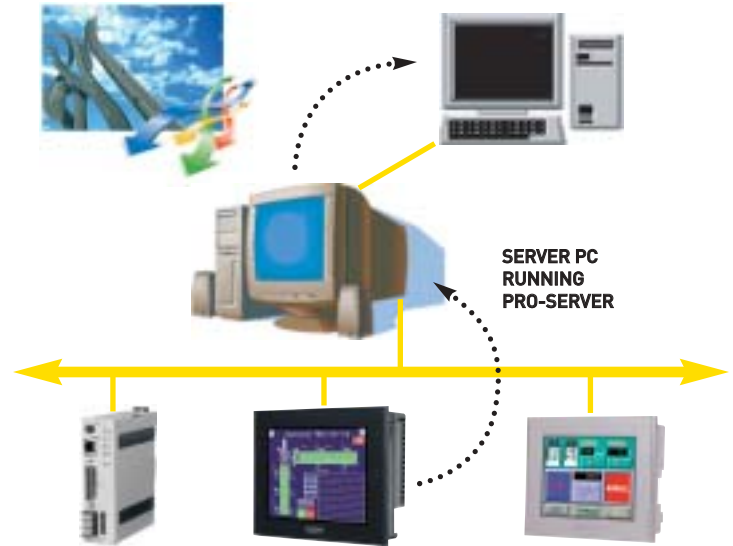
- ||| Multiple language selection during runtime
- ||| Advanced Alarming
- ||| Trending and data logging
- ||| Live video (up to 4 windows)
- ||| "D-script" scripting language
- ||| Bar Code/2D matrix reader support
- ||| Pop-up keypads
- ||| Extensive parts library (up to 256 colors)
- ||| BMP, JPG, DXF, RTF, CSV import

Data Collection Software | Pro-Server

With Pro-Server, collecting data from your factory floor or process is easy. Using Ethernet and common interface standards, ADO, DDE, DLL, or OPC data can be gathered and sent anywhere on the network or even directly to Microsoft™ Access™ or Excel™.

Features Include:

- III Data collection from GLC, GP2000 or Factory Gateway
- III Enabling peer-to-peer communication between GLC, GP2000 or Factory Gateways
- III Launching Windows™ applications on remote PCs
- III Send status to text pager or cell phone, or email anywhere

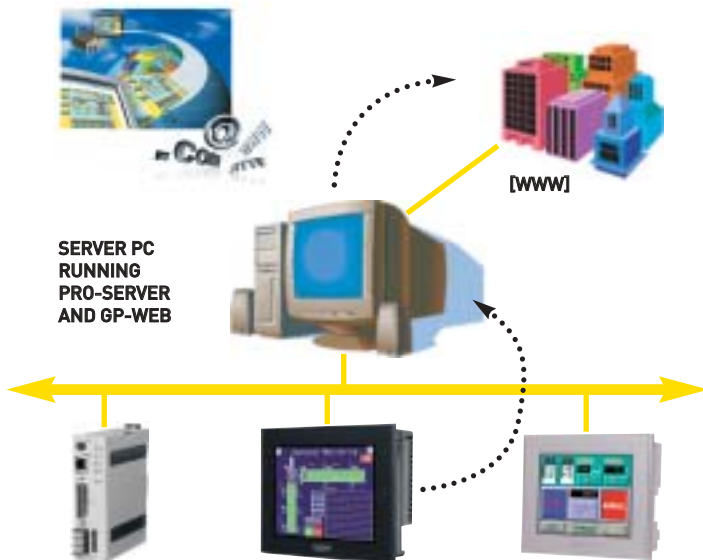


Web Operation Software | GP-Web

GP-Web allows viewing of GLC, GP2000 or Factory Gateway screens, remotely using a standard web browser. Status can be viewed across the plant, across town or across the globe. Maintenance issues become more efficiently handled as the staff knows what is wrong before they arrive.

Features Include:

- III Remotely view screens using standard web browser
- III Optionally interact with screens
- III Basic troubleshooting from a distance



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