

# PRO-FACE OPERATOR INTERFACES

## PRODUCT DATASHEET



**AGP3500-L1-D24-D81C**

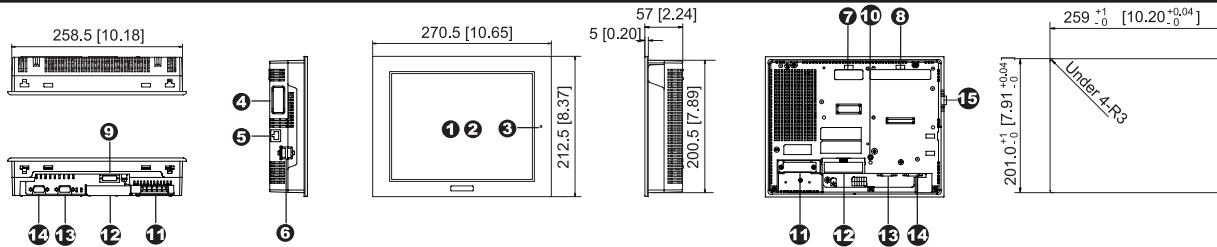


### AGP3500L D81C Integrated HMI Controller

#### 10.4" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- Crisp, Clear, Bright 320x240 Resolution Monochrome Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

## PRODUCT OVERVIEW



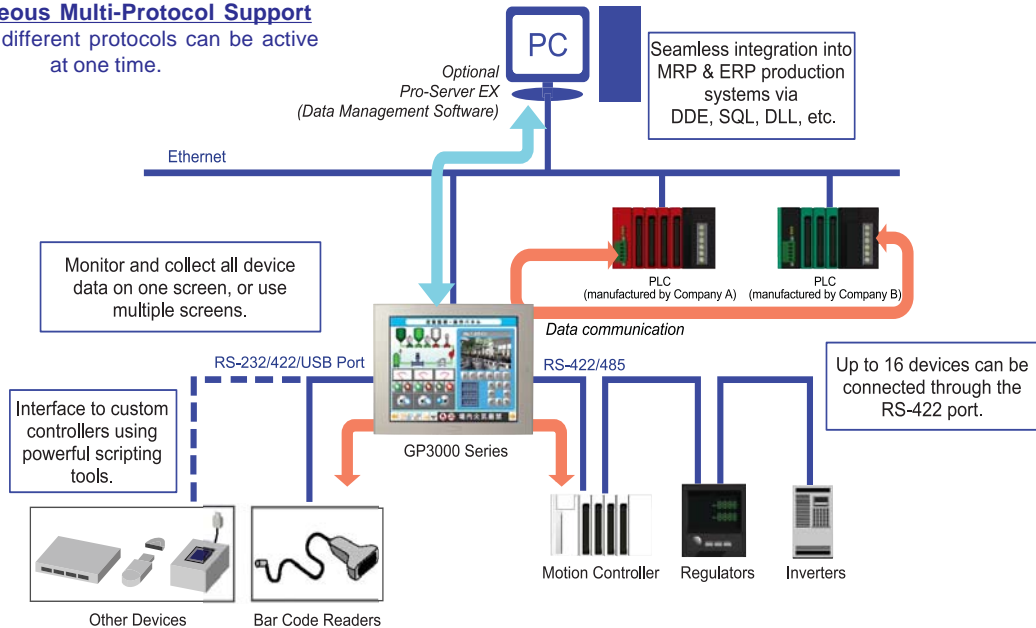
AGP-3500T (AC Type) Unit Shown.

- |   |  |   |
|---|--|---|
| <p><b>1 Display</b></p> <p><b>2 Touch Panel</b></p> <p><b>3 Status LED</b></p> <p><b>4 Expansion Communication Feature Interface 1</b></p> <p><b>5 10/100 Base-T Ethernet Interface (LAN) (RJ45)</b></p> <p><b>6 USB Interface (Host)</b><br/>Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader, etc. The maximum communication distance is 5m.</p> | <p><b>7 Optional Communication Module Interface 2</b></p> <p><b>8 Optional Video Mix Module Interface</b><br/>Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.*1</p> <p><b>9 Auxiliary input/output /Audio Output Interface (AUX)</b><br/>This interface is External Reset, Alarm Output, Buzzer Output, and sound output.</p> <p><b>10 CF Card Access LED</b><br/>This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.</p> | <p><b>11 Power Input Terminal Block</b><br/>Connect the power cable.</p> <p><b>12 CF Card Cover</b><br/>The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.</p> <p><b>13 Serial Interface (COM1)</b><br/>RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.</p> <p><b>14 Serial Interface (COM2)</b><br/>RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.</p> <p><b>15 Discrete I/O Interface</b><br/>6 Discrete Inputs, 2 Discrete Outputs Built-in.</p> |
|---|--|---|

## COMMUNICATION CAPABILITY

### Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



# AGP3500L D81C CONTINUED

## INTEGRATED MONITOR CONTROL

### ONLINE LOGIC PROGRAM MONITORING FEATURE

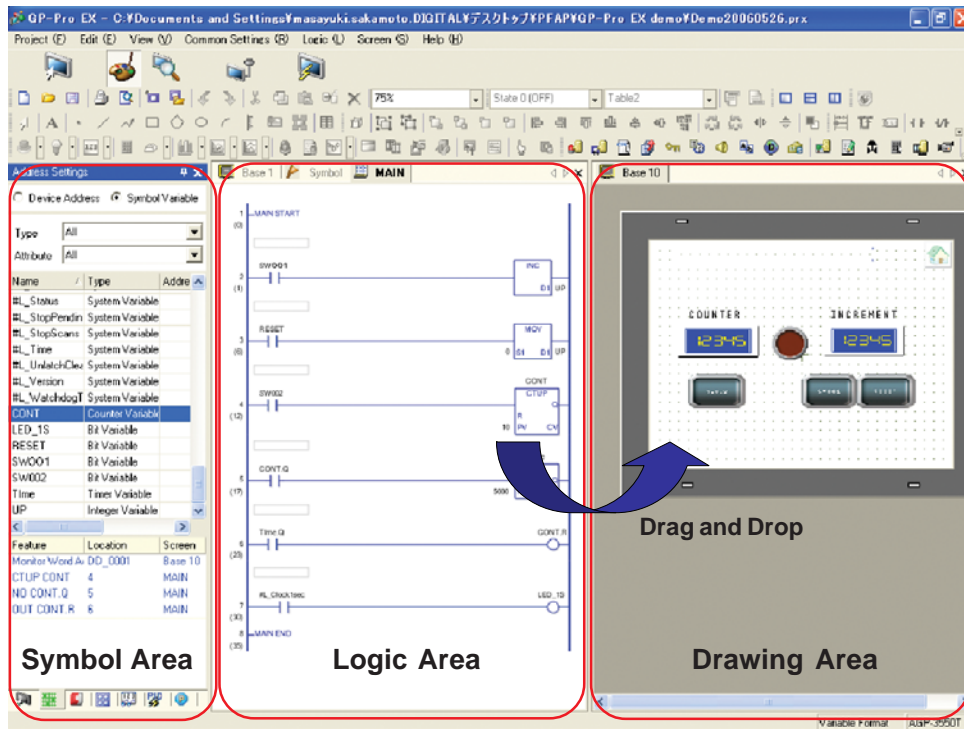


#### Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

### POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



#### Time Saving Steps

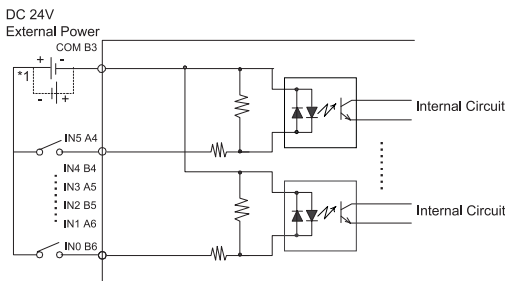
**Drag and Drop**  
 Drag contact or coil to quickly create a graphical switch or lamp.

**Re-usable sub-routines**  
 Reduce steps for product programming development and maintenance using sub-routines.



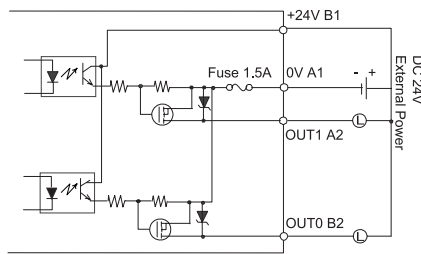
### BUILT-IN DISCRETE I/O

**6 Discrete Inputs, 2 Discrete Outputs Per Model**

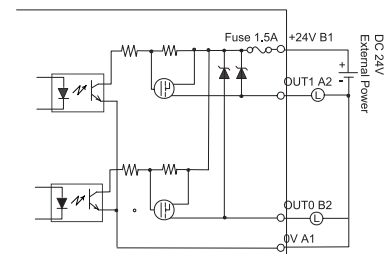


\*1 Dotted line shows connection to sink output type.

**Discrete Input Connection**



**Discrete Output Connection (Sink Configuration)**



**Discrete Output Connection (Source Configuration)**

# AGP3500L D81C SPECIFICATIONS

## FUNCTIONAL SPECIFICATIONS

Model		<b>AGP3500-L1-D24-D81C</b>
Display	Type	Monochrome LCD
	Colors	Black and White (16 shades)
	Backlight	CCFL Service life: 58,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness & Contrast Controls	8 levels of adjustment available via touch panel
Memory	Touch Panel	Resistive film analog 1024 x 1024 resolution
	Application	6 MB FEPRAM
Interfaces	Data Backup	320KB SRAM
	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	USB Interface	1 Port USB1.1 Host I/F, USB TYPE-A connector
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input points 24VDC, Rated: 5.7 mA. 2 Outputs 24V DC, Rated: DC 20.4V to 28.8V.
	CF Card Interface	1 slot CompactFlash™, TYPE II

## GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
Structural	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s <sup>2</sup> , X,Y, Z directions for 10 times (80min.)
	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL listed CI 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

## CUT-OUT COMPATIBILITY

### 16 Years of Cut-Out Compatibility



Old model

Panel cutout dimensions

AGP3000 model  
"Drop-in"



Size (mm)	156x123.5 mm
Series	
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

## SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor  
**GP-Pro EX**

HMI Development  
Software

## ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3500-L1-D24-D81C	5.7" Monochrome, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Source), 24VDC

### OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheet (5 sheets/pack)

PLC Cables & Accessories See AGP3000 Connectivity Document

**Xycom Automation**  
Ph: 734-429-4971  
Fax: 734-429-1010  
<http://www.xycom.com>

**Customer Support Hotline:**  
**734-944-0482**



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

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

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**Schneider Electric USA, Inc.**  
800 Federal Street  
Andover, MA 01810 USA  
888-778-2733  
[www.schneider-electric.us](http://www.schneider-electric.us)

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Av. Ejercito Nacional No. 904  
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55-5804-5000  
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