

PRO-FACE OPERATOR INTERFACES

product data sheet



AGP3450-T1-D24

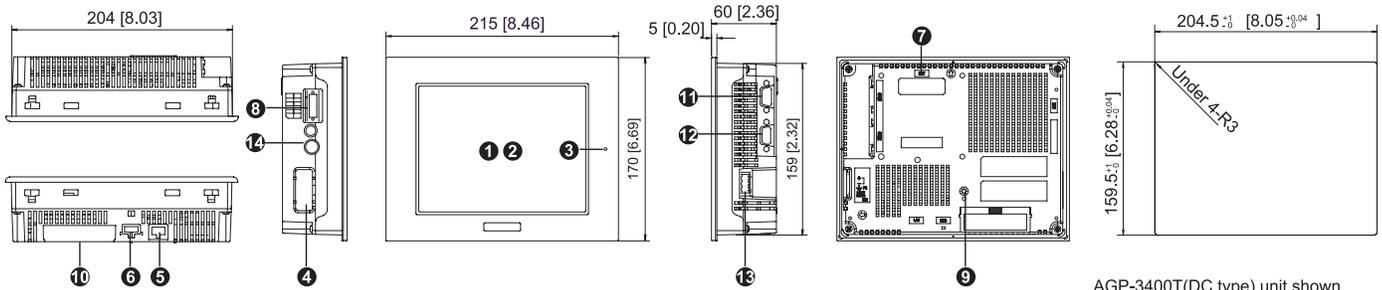


AGP3450T Advanced Multi-Media HMI

7.5" Multi-Port Multi-Media Operator Interface Touch Screen with Simultaneous Driver Support, Video and Sound

- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four 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
- Includes Alarm, Buzzer Output, Remote Reset Input
- Direct Video and Audio Input Ports, plus Audio Output

PRODUCT OVERVIEW

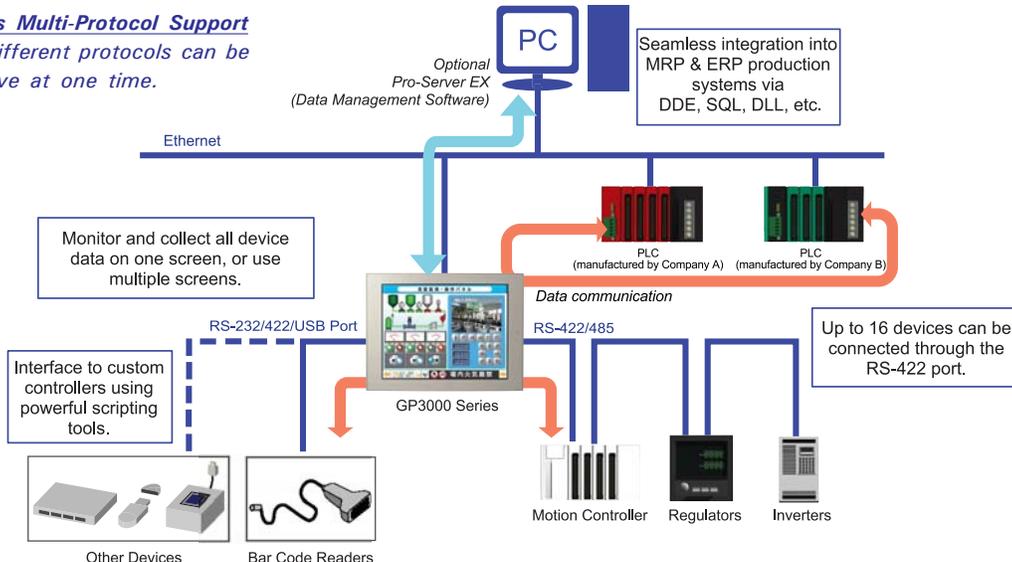


AGP-3400T(DC type) unit shown.

- 1 Display**
- 2 Touch Panel**
- 3 Status LED**
- 4 Expansion Communication Feature Interface 1**
- 5 10/100 Base-T Ethernet Interface (LAN) (RJ45)**
- 6 USB Interface (Host)**
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.
- 7 Optional Communication Module Interface 2**
- 8 Discrete input/output and Audio Output Interface**
Pluggable connector for External Reset, Alarm Output, Buzzer Output, and sound output.
- 9 CompactFlash Card Access LED**
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.
- 10 CompactFlash Card Access Cover**
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.
- 11 Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.
- 12 Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.
- 13 Power Plug Connector**
Power cable connection.
- 14 Audio/Video Input**
Microphone or camera interface.

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



AGP3450T SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

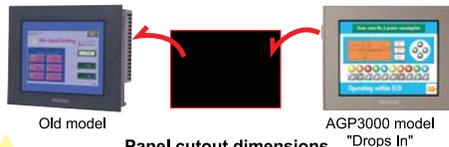
Model	AGP3450-T1-D24	
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	User replaceable CCFL (Service life: 54,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)
	Resolution	640 x 480 pixels
	Brightness Control	8 levels of adjustment available via touch panel
Memory	Touch Panel	Resistive film analog 1024 x 1024 resolution
	Application	8MB FEPRAM
Interfaces	Data Backup	320KB SRAM
	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, 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
	CF Card Interface	1 slot CompactFlash™, TYPE II
	Video Input Interface	NTSC: 59.9Hz, PAL: 50Hz, Connector: RCA 75Ω
	Sound Input Interface	MIC Input/Line Input (Change with S/W) Connector: MINI-JACK φ3.5mm
Sound Output	Speaker output	70mW (Rated Load: 8ohm, Frequency: 1kHz)
	AUX Discrete Output	Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA
	AUX Discrete Input	Remote Reset Input, Rated: DC24V @ 6mA
AUX Input/Output	Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	28W 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 Endurance	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 ² , X, Y, Z directions for 10 times (100min.)
	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 Groups A, B, C, D
	External Dimensions	W215mm[8.46in.] x H170mm [6.69in.] x D60mm [2.36in.]
	Weight	1.8kg (4.0lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Panel cutout dimensions

Series name	Size	204.5x199.5 mm
GP77R Series	—	
GP2000 Series	GP2400/01 Series	
GP3000 Series	GP-3400 Series	

Investment Protection

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor
GP-Pro EX

HMI Development
Software (v.1.10/higher)

ORDERING INFORMATION

ORDER NUMBER AGP3450-T1-D24
DESCRIPTION 7.5" TFT, 2 Serial, USB, Sound, Video, Ethernet, 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
PS400-DF00 Overlay Screen Protection Sheets (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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PRO-FACE OPERATOR INTERFACES

PRODUCT DATASHEET

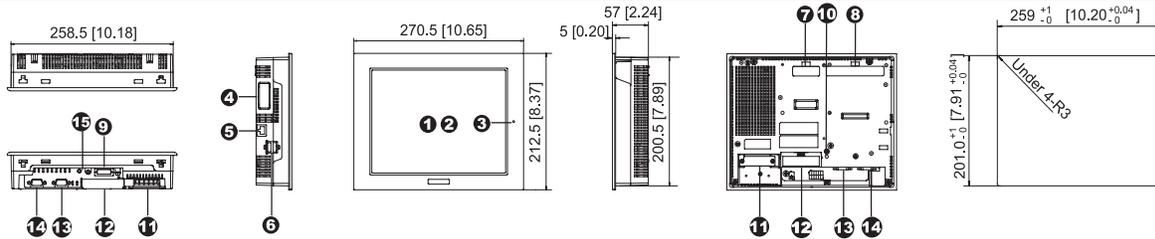


AGP3550-T1-AF
AGP3560-T1-AF
 CE RoHS

AGP3550T/3560T Advanced Multi-Media HMI 10.4" Multi-Port, Multi-Media Operator Interface Touch Screen with Simultaneous Driver Support, Video and Sound

- 65,536 Colors, Clear, Bright, 640 x 480 and 800 x 600 Resolution, TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster Than Conventional Operator Interfaces
- 10 Base-T/100 Base-TX Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Includes Alarm, Buzzer Output, Remote Reset Input
- Direct Video and Audio Input Ports, Plus Audio Output
- Remote Video Monitoring Via Optional 4-Channel GP2000-VM41 Video Mix Unit

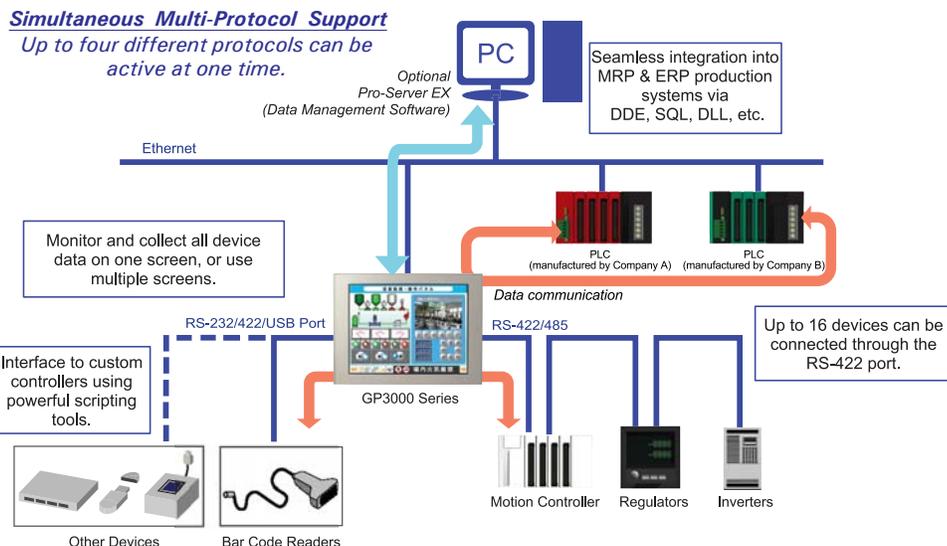
PRODUCT OVERVIEW



AGP-3500T (AC Type) Unit Shown.

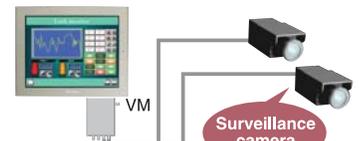
- 1 Display**
- 2 Touch Panel**
- 3 Status LED**
- 4 Expansion Communication Feature Interface 1**
- 10 Base-T/100 Base-TX Ethernet Interface (LAN) (RJ45)**
- 6 USB 1.1 Type A Interface (Host)**
 Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable, USB-compatible printer, or barcode reader, etc. The maximum communication distance is 5m.
- 7 Optional Communication Module Interface 2**
- 8 Optional Video Mix Module Interface**
 Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.
- 9 Auxiliary I/O Interface (AUX)**
 This Interface is External Reset, Alarm Output, Buzzer Output, and sound output.
- 10 CF Card Access LED**
 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.
- 11 Power Input Terminal Block**
 Connect the power cable.
- 12 CF Card Cover**
 The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing the CF Card.
- 13 Serial Interface (COM1)**
 RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.
- 14 Serial Interface (COM2)**
 RS-422/RS-485 (MPI 187.5kbps) serial interface. D-sub 9-pin socket type connector.
- 15 Audio/Video Input**
 Microphone or camera interface.

COMMUNICATION CAPABILITY



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security



AGP3550T/3560T SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3550-T1-AF	AGP3560-T1-AF
Display	Type	TFT Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)	
	Resolution	640 x 480 pixels	800 x 600 pixels
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPRAM	
	Data Backup	320KB SRAM	
Interfaces	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)	
	Expansion Unit Interface	Interface port for future field networking solutions	
	USB Interface	2 ports USB1.1, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker output 70mW (Rated Load: 8 ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.	
	Video Input Interface	NTSC: 59.9Hz PAL: 50Hz Connector: RCA: 75 ohms	
	Sound Input Interface	MIC Input/LINE Input (Change with S/W) Connector: MINI-JACK ϕ 3.5mm	
AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less		

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC
	Rated Voltage Range	85V AC to 265V AC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A 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)
	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 ² , X, Y, Z directions for 10 times (100min.)
	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, cUL recognized (Cl 1 Div 2), RoHS compliant
	External Dimensions	W270.5mm[10.65in.] x H212.5mm [8.37in.] x D57mm [2.24in.]
	Weight	2.7kg (5.9 lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Old model



Panel cutout dimensions



AGP3000 model
"Drops in"



Series Name	Size	301.5x227.5 mm	259x201 mm
GP77R Series	GP577R Series	GP-477R EL	
GP2000 Series	GP2500/01 Series		
AGP3000 Series	GP-3600 Series (STN or Mono)	GP-3500* Series(TFT)	

*Note: Drop-in replacement for GP477R EL Model.
To mount in a GP2500 cut-out, an adapter plate is required.

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor

GP-Pro EX

HMI Development
Software (v.1.10/higher)

ORDERING INFORMATION

ORDER NUMBER

AGP3550-T1-AF

AGP3560-T1-AF

OPTIONAL ACCESSORIES

HMI-CAB-ETH

CA3-USBCB-01

CA5-DFS10-01

CA4-ATM10-01

PLC Cables & Accessories

DESCRIPTION

10.4", 640 x 480 TFT, 2 Serial, 2 USB, Sound, Video, Ethernet, 100VAC to 240VAC

10.4", 800 x 600 TFT, 2 Serial, 2 USB, Sound, Video, Ethernet, 100VAC to 240VAC

Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI

USB download cable, PC USB port to AGP USB port

Overlay Screen Protection Sheets (5 sheets/pack)

Panel Adapter Plate for mounting AGP3500T in a GP2500 Cut-out

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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PRO-FACE OPERATOR INTERFACES

PRODUCT DATASHEET



AGP3650-T1-AF

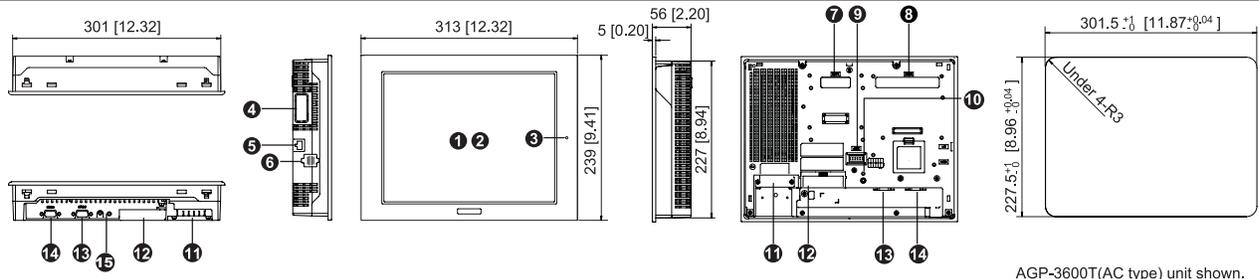


AGP3650T Advanced Multi-Media HMI

12.1" Multi-Port, Multi-Media Operator Interface Touch Screen with Simultaneous Driver Support, Video and Sound

- 65,536 Color, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Includes Alarm, Buzzer Output, Remote Reset Input
- Direct Video and Audio Input Ports, plus Audio Output
- Remote Video Monitoring via optional 4-Channel GP2000-VM41 Video Mix Unit

PRODUCT OVERVIEW

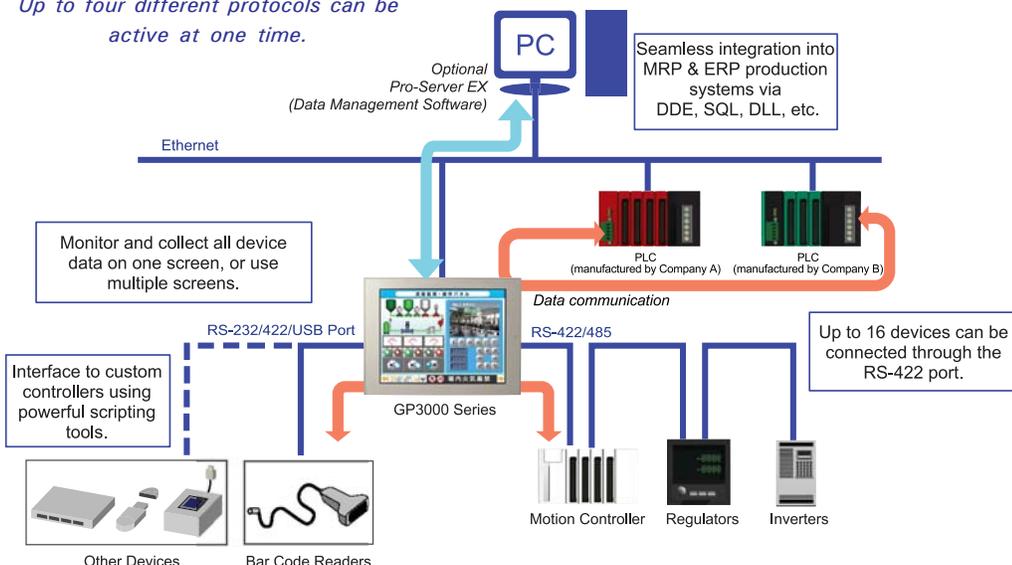


- 1 Display**
- 2 Touch Panel**
- 3 Status LED**
- 4 Expansion Communication Feature Interface 1**
- 5 10/100 Base-T Ethernet Feature (LAN) (RJ45)**
- 6 USB Interface (Host)**
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader, etc. The maximum communication distance is 5m.
- 7 Optional Communication Module Interface 2**
- 8 Optional Video Mix Module Interface**
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.
- 9 Auxiliary input/output /Audio Output Interface (AUX)**
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.
- 10 CompactFlash Card Access LED**
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.
- 11 Power Input Terminal Block**
Connect the power cable.
- 12 CompactFlash Access Cover**
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.
- 13 Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.
- 14 Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.
- 15 Audio/Video Input**
Microphone or camera interface.

COMMUNICATION CAPABILITY

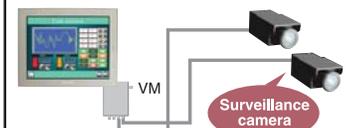
Simultaneous Multi-Protocol Support

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



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security



AGP3650T SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

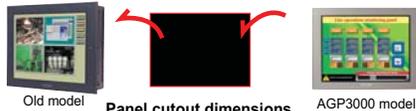
Model		AGP3650-T1-AF
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)
	Resolution	800 x 600 pixels
	Brightness Control	8 levels of adjustment available via touch panel
Memory	Touch Panel	Resistive film analog 1024 x 1024 resolution
	Application	8MB FEPRM
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)
	Communication Module Interface	Interface port for future field networking solutions
	USB Interface	2 ports USB1.1, Host I/F, USB TYPE-A connector
	CF Card Interface	1 slot CompactFlash™, TYPE II
	Sound Output	Speaker output 70mW (Rated Load: 8ohm, Frequency: 1kHz)
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.
	Video Input Interface	NTSC: 59.9Hz PAL: 50Hz Connector: RCA: 75Ω
	Sound Input Interface	MIC Input/LINE Input (Change with S/W) Connector: MINI-JACK φ3.5mm
AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC
	Rated Voltage Range	85V AC to 265V AC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A 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)
	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)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s ² , X, Y, Z directions for 10 times (100min.)
Structural	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, UL, cUL Recognized
	External Dimensions	W313mm [12.31in.] x H239mm [9.41in.] x D56mm [2.20in.]
	Weight	3.0kg (6.6lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Series name	Size (mm)
GP77R Series	301.5x227.5
GP2000 Series	301.5x227.5
GP3000 Series	301.5x227.5

Drop-in replacement for:
GP2600,
GP2500,
GP577R

Investment Protection

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor
GP-Pro EX

HMI Development
Software (V.1.10/higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3650-T1-AF	12.1" TFT, 2 Serial, 2 USB, Sound, Video, Ethernet, 100VAC to 240AC

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-DFS12-01	Overlay Screen Protection Sheets (5 sheets/pack)
GP2000-VM41	Four-Channel Video Mix Unit (Verify support in your version of GP-Pro EX)
PLC Cables	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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PRO-FACE OPERATOR INTERFACES

PRODUCT DATASHEET



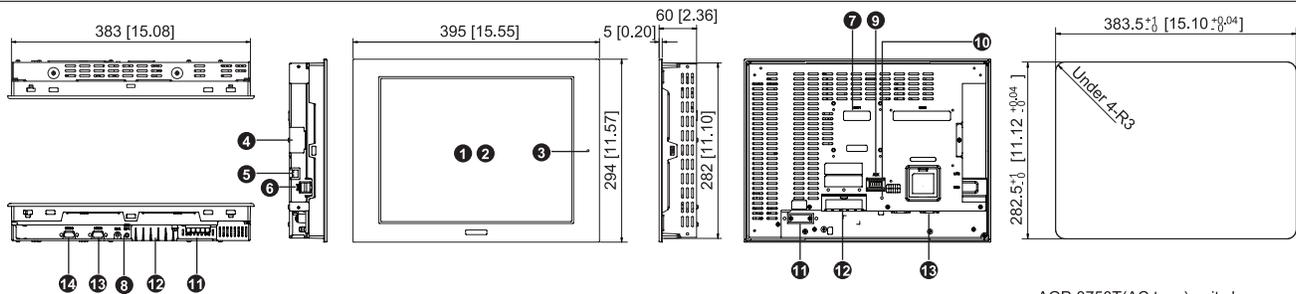
AGP3750-T1-AF
AGP3750-T1-D24



AGP3750T Advanced Multi-Media HMI

15" Multi-Port, Multi-Media Operator Interface Touch

- 65,536 Colors XGA, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four 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
- Includes Alarm, Buzzer Output, Remote Reset Input
- Direct Video and Audio Input Ports, plus Audio Output



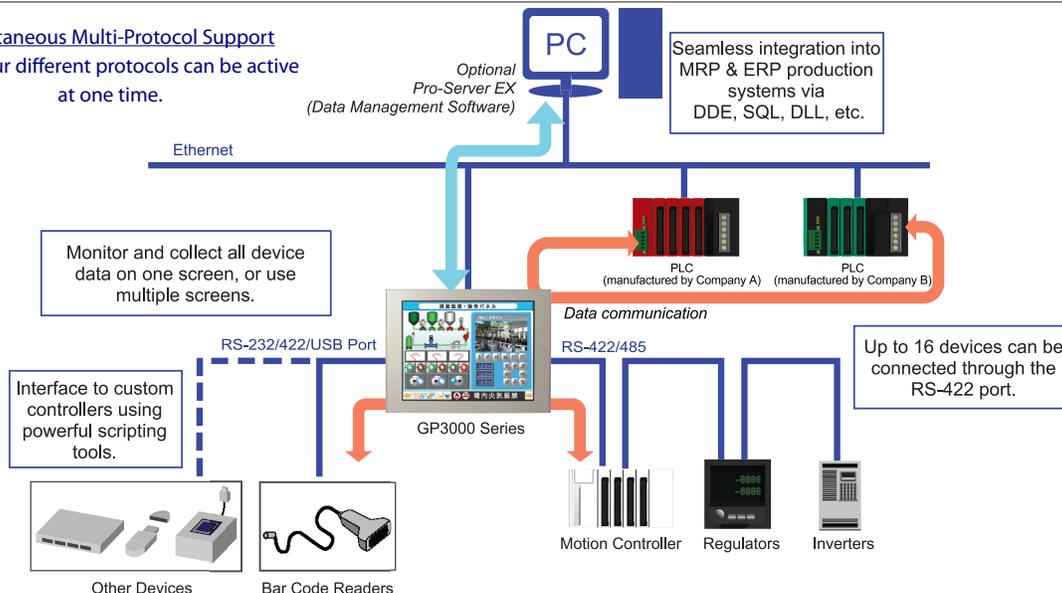
AGP-3750T(AC type) unit shown.

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- 2 Touch Panel**
- 3 Status LED**
- 4 Expansion Communication Feature Interface 1**
- 5 10/100 Base-T Ethernet Interface (LAN) (RJ45)**
- 6 USB Interface (Host)**
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.

- 7 Optional Communication Module Interface 2**
- 8 Audio/Video Input**
Microphone or camera interface.
- 9 Discrete input/output and Audio Output Interface**
Pluggable connector for External Reset, Alarm Output, Buzzer Output, and sound output.
- 10 CompactFlash Card Access LED**
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.

- 11 Power Input Terminal Block**
Connect the power cable.
- 12 CompactFlash Access Cover**
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.
- 13 Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.
- 14 Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



FUNCTIONAL SPECIFICATIONS			
Model		AGP3750-T1-AF	AGP3750-T1-D24
Display	Type	TFT Color XGA LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)	
	Resolution	1024 x 768 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
Memory	Touch Panel	Resistive film analog 1024 x 1024 resolution	
	Application	8MB EEPROM	
Memory	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	
Interfaces	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI 187.5 kbps)	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Communication Module Interface	For optional field networking communication modules	
	USB Interface	2 ports USB1.1, Host I/F, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker output 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Input Interface	NTSC: 59.9Hz PAL: 50Hz Connector: RCA: 75Ω	
	Sound Input Interface	MIC Input/LINE Input (Change with S/W) Connector: MINI-JACK φ3.5mm	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS			
Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	—
	Power Consumption	100V AC 1.1A or less, 240V AC 0.7A 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)	
	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)	
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s ² , X,Y, Z directions for 10 times (100min.)	
Structural	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, cUL, UL Recognized C1 Div 2	
	External Dimensions	W395mm [15.55in.] x H294mm [11.57in.] x D60mm [2.36in.]	
	Weight	5.6kg (12.3lb) or less	



POWERED BY:



HMI Development Software (v.1.10/higher)

ORDER NUMBER	DESCRIPTION
AGP3750-T1-AF	15" TFT Color LCD, USB, Ethernet, Serial HMI, Multimedia, AC powered
AGP3750-T1-D24	15" TFT Color LCD, USB, Ethernet, Serial HMI, Multimedia, DC powered
<u>OPTIONAL ACCESSORIES</u>	
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-DFS15-01	Overlay Screen Protection Sheets (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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Corporate Overview

GP-Pro EX HMI
Software

AGP3000 Hardware
Specifications

AGP3000 Series
Operator Interface

Pro-Server EX
Data Management
Software

HMI Connectivity
and Accessories

Pro-face®



AGP3000 Series: Advanced Operator Interfaces for the Competitive Edge

xycom.com

CELEBRATING
35 Years
of Industrial
Automation
Solutions

Pro-face®
XYCOM™



Globally recognized, globally supported, globally trusted.



- ||| We are the leading independent global supplier of industrial computing and visualization solutions for automation and manufacturing applications.
- ||| We continue to set the standards for HMI solutions by offering the industry's most extensive product offerings and the highest levels of connectivity and support.

Pro-face HMI Operator Interfaces

Programmable graphic HMIs



- 3.8" to 15" crisp, clear HMI displays
- TFT, STN color or mono touch screens
- Data sharing & collection through OPC, DDE, SQL, etc.
- Web-enabled & remote monitoring capabilities
- Large selection of controller connectivity
- Ethernet, USB, RS232, RS422/485 and CompactFlash™ interfaces
- Full-featured HMI screen editor software

HMI logic controllers



- 5.7" to 12.1" dedicated touch-screen logic controllers
- Supports local or distributed I/O applications
- Low-cost standalone or networked units
- TFT color and mono graphics displays
- Large selection of protocol connectivity
- Data sharing & collection through CompactFlash, OPC, DDE, SQL, etc.

Xycom HMI Industrial Computers & Monitors

Industrial computers



- 8.4" up to 15" TFT displays
- Up to 1024 x 768 XGA resolution
- Intel® Pentium III and 4 CPUs
- Up to 2.4 GHz processor speed
- UL, cUL HazLoc approvals
- NEMA 4/4X/12 front panel ratings
- Touch screens and/or keypads
- Extensive I/O connectivity
- 20 years of cutout compatibility

Flat-panel monitors



- 10" up to 19" TFT displays
- Up to 1280 x 1024 SXGA resolution
- NEMA 4/4X/12 front panel ratings
- UL, cUL HazLoc approvals
- Touch screens and/or keypads
- Adapters for cutout compatibility

World-class HMI products, service, support and reliability.

NEW

AGP3000 Series

AGP3000 Series models configured
with ONE software package...Screen Editor
GP-Pro EX

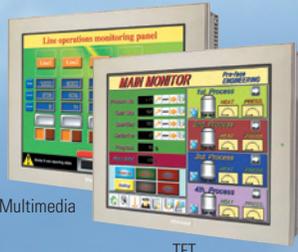
Advanced operator interfaces for the competitive edge

AGP 3700 Series

15"

Multimedia TFT

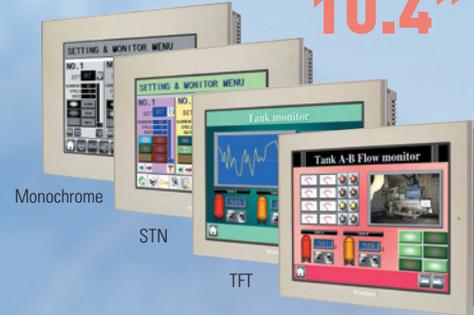
AGP 3600 Series

12.1"

Multimedia

TFT

AGP 3500 Series

10.4"

Monochrome

STN

TFT

Multimedia

AGP 3300 Series

5.7"

Monochrome

Blue Mode

STN

TFT

Screen Editor
GP-Pro EX
Intuitive HMI development
environment supporting all
AGP3000 units

AGP 3400 Series

7.5"

Multimedia

STN

TFT

An extensive line of HMI operator interfaces with the features you need, designed to lower your costs and improve your manufacturing processes

- ✓ **Lowers your HMI development cost**
 - Easy-to-learn, self-guiding HMI development environment requires less time to master
 - Extensive, built-in, time-saving features help you develop fast, consistent, standardized graphical interfaces
- ✓ **Increases your productivity & product quality**
 - Monitor, collect, analyze and report up-to-the-minute production data using Pro-Server EX data management software
 - AGP3000's extensive connectivity allows you to choose best-in-class complementary products, such as PLCs, drives and controllers, to match your application needs – without worrying about compatibility

- ✓ **Supports a more responsive and efficient work force**
 - Use multimedia features to create detailed audio and visual standardization maintenance guides
 - Gain instant access to machine training videos at each operator workstation
- ✓ **Reduces machine downtime**
 - Use Event Recorder to capture machine faults
 - Link video playback to alarm conditions
 - Play instructional videos to help you quickly isolate and correct the problem
 - Reduce your on-site field support calls by using remote maintenance feature

All the Best Features in One Product Family

HMI operator interface solutions

- Data management solutions
- Multimedia HMI solutions
- HMI Control Solutions
- Built-in security HMI solutions
- Distributed & integrated I/O solutions
- Point-to-point data-sharing HMI solutions

Connectivity

- Ethernet
- Audio/video
- USB
- CompactFlash™
- RS-232/422/485
- Multi-protocol

Performance

- Crisp, clear, bright displays
- Wide viewing angles
- No-grid, analog touch screen
- 65K color support
- 64-bit RISC CPU
- Fast data sampling

Get More From Your HMI With Pro-Server EX

Data management software

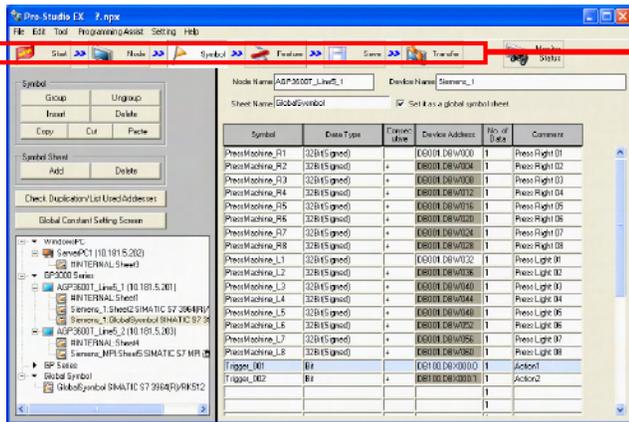
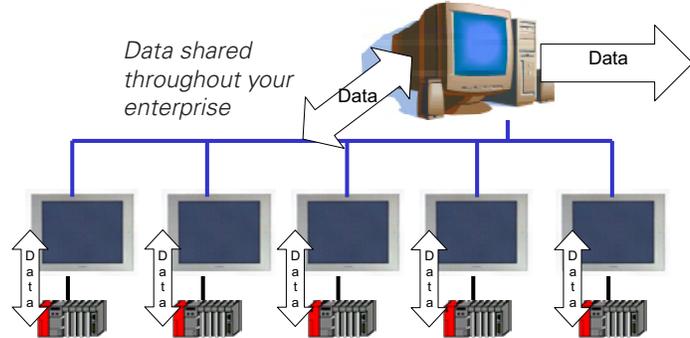
Pro-Server EX

Data Management Enhanced connectivity software

Up-to-the-minute, accurate data to optimize your productivity and maximize profits.

Collect, monitor and share factory-floor data:

- When you need it
- Where you need it
- With those who need it



Fast and simple setup

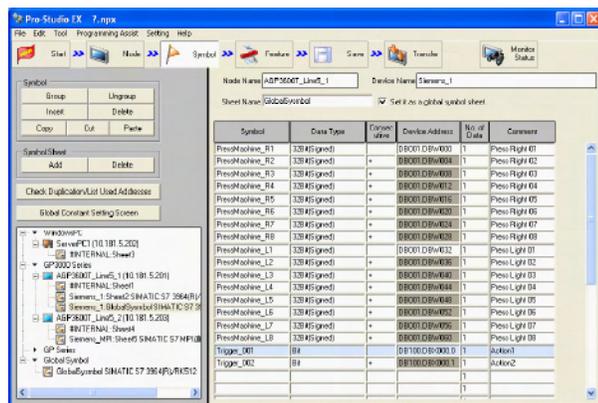
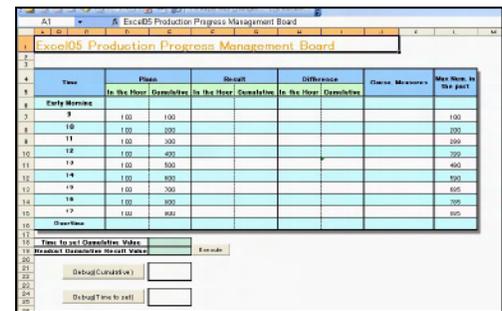
- Fill-in-the-blank data configuration, no programming!
- Built-in templates save you time and get you started quickly
- Shares data with Windows®-based applications
- Up-to-the-minute production data
- Collect and share data with multiple AGP HMIs and other departments

Includes 29 easy-to-use Excel® templates

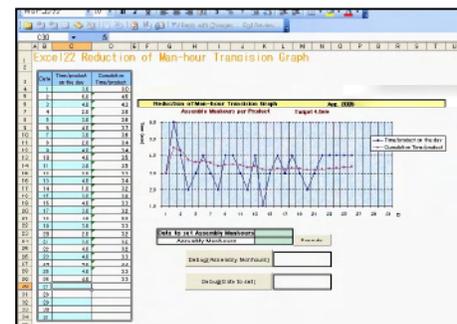
- Daily/monthly/yearly report
- Downtime shift
- Failure rate data
- Preparation time graph
- Direct first-run graph

Report examples

Production Planning and Product Output Monitoring



Up-to-the-minute Productivity Efficiency Reports



Create the report you need in minutes!

- Select data
 - Choose data operation
 - Update network
- No programming required!**

Factory-Floor Data at Your Fingertips

Get the competitive edge.
Information where you want it, when you want it.



Pro-Server EX Architecture Overview

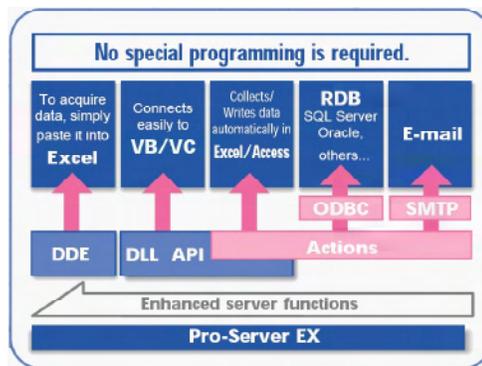
Pro-Server EX is cost-effective data management software that allows data collected by Pro-face operator interfaces to be shared and directly integrated into your existing MRP, MES business system or any Windows-based application. No additional drivers or software needed! Pro-Server EX takes advantage of all the protocol connectivity built into GP-Pro EX, allowing you to share data anywhere.

Architecture overview

Connectivity support

- DDE
- API (for VB or VC++)
- SMTP e-mail
- DLL
- ODBC
- Excel
- Access
- SQL Server

Requires: Windows® 2000 (Service Pack 3 or later), Windows® XP Home Edition/ Professional or/Server Intel Pentium® III 500MHz or more



Applications

- Share HMI data with your PC server
- Share HMI data with another HMI -Peer-to-peer data sharing with any Ethernet-based Pro-face HMI
- Write data to and log data from PLC
- Send e-mail to desktop, cell phone, pager, via SMTP
- Collect and write data -In Excel, CSV file, to or from database

Integrate into your existing enterprise system.
Save your budget, and save thousands of dollars per year!



SELF-GUIDING Intuitive HMI Screen Development Editor

With GP-Pro EX's simple four-step navigation process, HMI development has never been easier – or faster

Four Simple Steps

Icons across the top of the editor guide you through the four basic steps of screen editing with GP-Pro EX software!

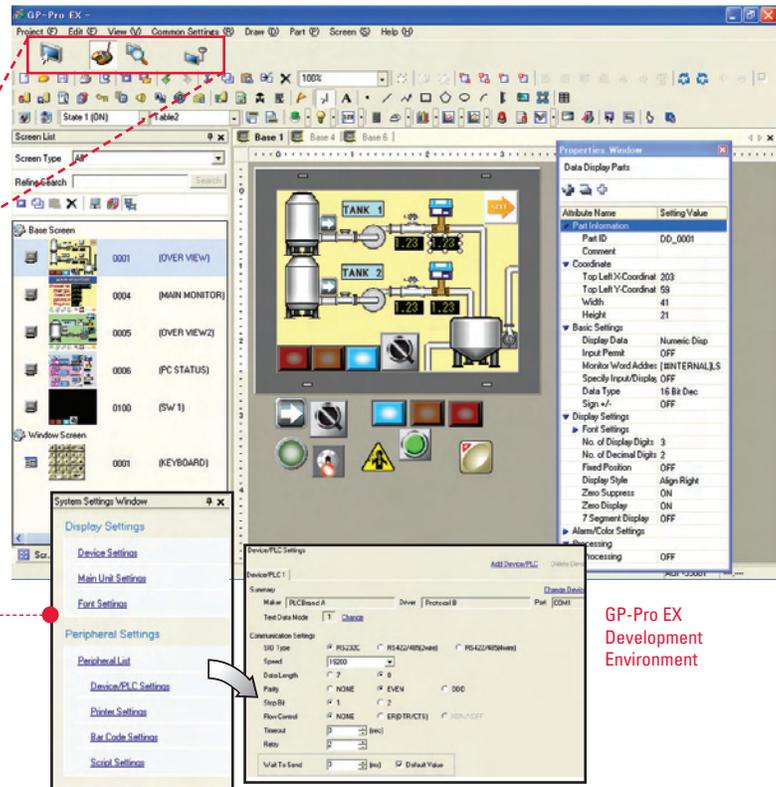


1

ESTABLISH SYSTEM SETTINGS

Intuitive Communication Set-up

- Configure up to four different protocols that operate simultaneously
- One-step bar-code reader setup
- Scripting functions for interfacing to custom or proprietary third-party devices
- Lists recently used devices for fast access to relevant controllers



GP-Pro EX
Development
Environment

2

EDIT SCREENS

Powerful, full-featured HMI editor for fast screen development Create complex HMI screens and reusable templates in minutes!

- Huge graphic parts library with high-resolution 2D and 3D part images
- Create standardized header and footer templates
- Multi-functional switches with on/off delay two-touch function
- Use any Windows®-based font for crisp and smooth, easy-to-read text, plus unlimited character sizing
- Double-click on a part to pop up its attribute window for easy editing
- Drag and drop parts between two projects – edit both simultaneously!



More than
1800 parts
and symbols



One-click access to multiple user-defined headers (i.e. title) and footers (i.e. menu) for perfect placement. Edits to headers/footers update all screens simultaneously!

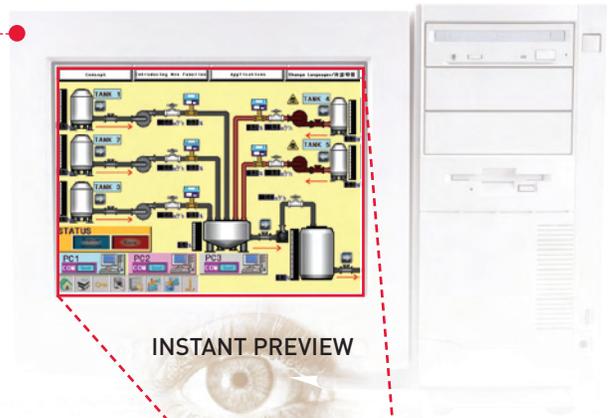
3

PREVIEW YOUR APPLICATION SCREENS

III Preview your HMI application on your PC and spare yourself from unnecessary downloads.

Review your HMI screens on your PC to fine-tune the look and feel of your application. **Saves valuable time!**

- Allows you to enter data and preview the results, enhancing screen development
- **Built-in documentation** support feature allows you to quickly create an HMI specification based on selected criteria
 - Add screen captures to create clear specifications for engineering documents



4

TRANSFER YOUR APPLICATION...AND GO!

III Download your applications *in seconds, not minutes!*

Large HMI projects? No problem. The **ultra-fast AGP3000 64-bit RISC processor** provides speedy and efficient application upload and download file transfers.

- **Built-in, powerful error-checking features**
 - GP-Pro EX will automatically check for errors before downloading your project
 - If an error is detected, a new status window opens to quickly indicate the error and where it occurs within your application
- Download your HMI application through the Ethernet or USB ports
- Do field upgrades using the CompactFlash™ port – no software required!



Fast Application Transfer



AGP3000

GP-Pro EX



GP-Pro EX. Designed for the beginner, but powerful enough to satisfy even the most experienced HMI developer.

- Create highly detailed and secure applications
- Speed up development with extensive time-saving features
- Interface to any controller with extensive built-in connectivity

Start today!

Download a trial version today at www.xycom.com.

GP-Pro EX – The Features You Depend On



HMI Screen Editor Self-guiding software for all AGP3000 Series HMI models

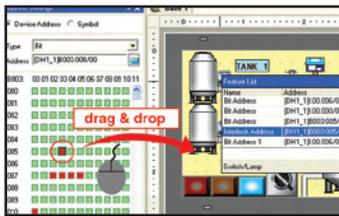
All the tools you need to create highly functional, friendly and versatile HMI applications

Setup, graphics and editing



Extensive image parts, symbols & fonts library

- III Over 1,800 high-quality 3D parts provide international recognition of symbols - overcoming language barriers.
- III BMP and JPG files can be freely placed and reduced/enlarged with high clarity.
- III Windows®-based image fonts provide a wide range of font characters and crisp, readable text with unlimited sizing capabilities.



Visual PLC address mapping

- III Smart visual address mapping for fast PLC-address-to-part communication connections
 - Drag and drop PLC address onto part to quickly link controller address to pushbutton, tank, graph, etc.
 - Gives a quick visual check on how each part is mapped to controller or I/O device
 - Significantly reduces screen development time
 - Quick indication of what controller addresses are still available

Multi-action switches

- III Execute multiple actions with one switch
- III No need to stack switches, leading to possible operator error
- III Choose Bit Switch, Word Switch, Set Action setting, PLC Address, etc.



Easy bar-code reader setup

- III As simple as enabling the COM port the reader is connected to
- III Data is instantly displayed on the screen or can be logged
- III Use for parts tracking or identifying machine operator



Part property window

- III Property Window for quick review and changes of objects.
 - Change part or symbol
 - Change part attribute colors
 - PLC communication address
 - Part function type (e.g. Momentary to Toggle)

CompactFlash™ (CF card)

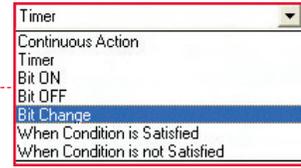
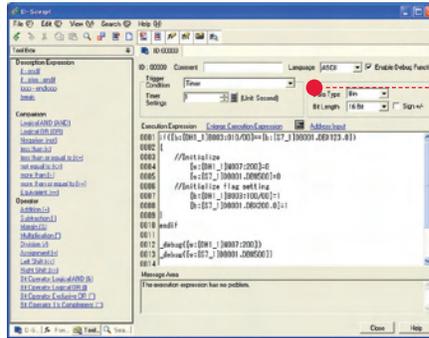
- III Download HMI application to CompactFlash
- III OEM machine field upgrades - no software needed!
- III Log critical data to CF card for later retrieval and analysis
- III Store large image files



User-defined macro functionality

Powerful D-scripting

- III Extend your serial communications capabilities!
Write your own simple ASCII protocol to communicate to custom controllers, third-party I/O boards, and interface to legacy plant-floor equipment
- III Create data logging algorithms – log to internal memory, CompactFlash, or print directly from AGP's touch screen, etc.
- III Develop custom functions (macros) to execute a sequence of events.

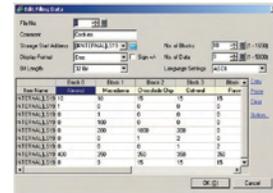


Select from various types of triggers for maximum flexibility of operations.

Advanced functionality

Recipes

- III Create hundreds of recipes and load them from internal memory or CompactFlash (CF) card
 - View all recipes on one screen or use multiple screens
 - Transfer recipe values to and from PLC
 - Create recipes via CSV files and transfer to AGP3000. Lets you write recipes in Excel® or other documents



Data logging and historical trending

- III Store data to CompactFlash (CF) or to a PC server for report generation
- III View data from AGP3000 in historical graph format
- III Real-time report generation



Alarms and events

- III Quick visual of current, event-triggered and historical alarms
- III View list and review detailed alarm descriptions
- III Acknowledge alarms and take action or Reset and Revert back to normal operating mode

Security pop-up keypads

- III Keep unauthorized users from viewing or modifying critical areas of your HMI application
 - Built-in 16 security level features to view and/or modify screens, system design
 - View data based on access level (e.g. production operator, maintenance personnel, plant-floor supervisor, HMI design engineer, etc.)



Various types of numeric and alpha-numeric keypads are available.

Time scheduling

- III Standardize equipment start-up times
- III Monitor productivity from each production shift
- III Set up periodic routine maintenance schedules
- III Use time scheduler to limit access to machine operations



Multi-language

- III Supports up to 16 different languages simultaneously
- III English, French, German, Spanish, Asian languages, etc.
- III Operators can view all screen images in the language of their choice

Text Table	Jump	1	2	3	4	5
No. of Characters of Text	10	10	10	10	10	10
1	10	1	10	1	10	1
2	10	1	10	1	10	1
3	10	1	10	1	10	1
4	10	1	10	1	10	1
5	10	1	10	1	10	1
6	10	1	10	1	10	1
7	10	1	10	1	10	1
8	10	1	10	1	10	1
9	10	1	10	1	10	1

AGP3000 Multimedia Features

Multimedia: A new world of possibilities for HMI developers

Now you can do what you always wanted to do:

- **Capture the moment**

Record the events that lead to machine breakdown

- **Create online audio/video machine tutorials.**

Keeps the operator trained with latest procedures

- **Record and play back audio**

Leave audio messages or instructions for next shift operator

- **Reduce downtime**

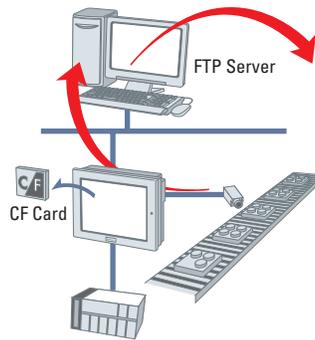
-Use the movie converter software for instructor-type maintenance procedures

-Use video cameras for remote monitoring and troubleshooting machines

**Make a good impression –
Enhance the operator interface experience.**

Event recorder

III You can record video and audio from a video camera connected to the built-in AGP3x50 multimedia ports. Store files on CompactFlash or place on FTP server connected to the AGP unit via Ethernet.

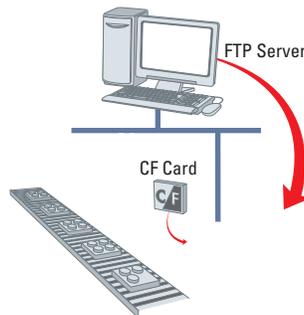


When a predefined event is triggered, video before and after the event (max. 120 sec.) is automatically recorded and stored as a log.

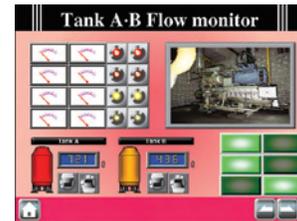
Fast & accurate troubleshooting

Movie file playback

III You can use the display of the AGP3000 to play back movie files. Simply select the desired files from a CompactFlash card or FTP server. You can also loop a series of movies.



It's easy to add movies to on-site instruction screens for better comprehension.



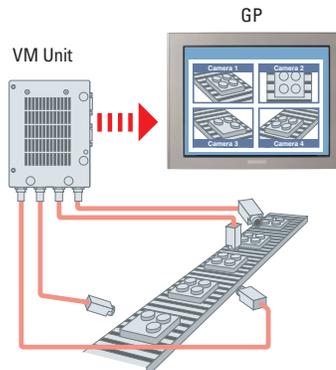
And now, you can create movie files with commercially available video software.

Note: Movie files you create must be converted with the Movie Converter EX converter tool, which requires the purchase of a license.

Video mix unit connection

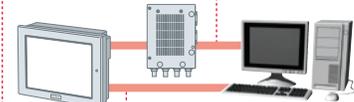
III With a VM unit (optional), visual monitoring of work details and conditions on the production site is available in real time. Up to four cameras can be connected, with all four images displayed simultaneously on one AGP3000 screen.

Note: Not all models can connect the VM unit.



GP can control a PC by displaying the PC screen on GP by using a VM unit.

RGB input (for display)



Serial communications (for mouse emulation)

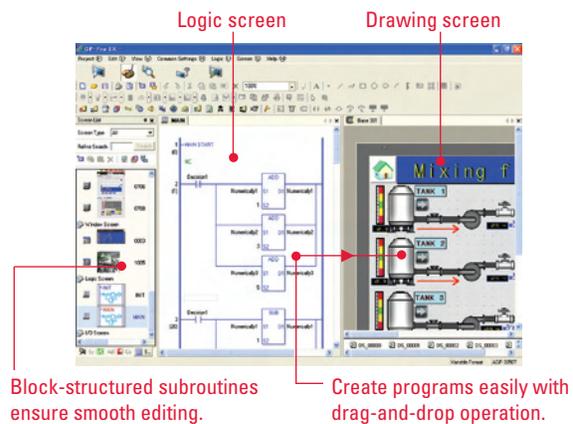
Note: Downloading Touch Panel Driver is necessary.

AGP3000 HMI Control – More Horsepower Under the Hood

HMI control: Operator interfaces with built-in logic programming More capabilities and features for demanding HMI applications

Logic program

- III Develop logic programs and algorithms, as well as your HMI screen application, using the same AGP3000 development environment.
- III Import logic programs created from previous versions of GP-Pro/PBIII C-Package for easy upgrade to AGP3000 products.
- III Symbols for drawing/editing images and variables for creating logic programs are unified.
- III Symbol variables for drawing images and creating logic programs are not required to be imported or exported.
- III Block-structured subroutines reduce steps for development and management of logic programs.



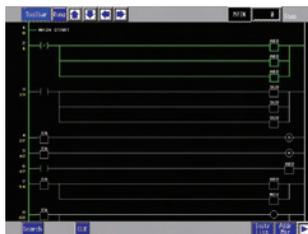
Block-structured subroutines ensure smooth editing.

Create programs easily with drag-and-drop operation.

Now, added instructions for greater use of use.

Logic monitoring function

- III You can use a variety of AGP monitoring screens to check logic programs.
- III English/Japanese display is selectable.



Logic display

Displays an entire logic program so you can check the operating status and the layout of instructions.



Address display

The addresses used in a logic program are listed so you can verify the names and current values of variables.

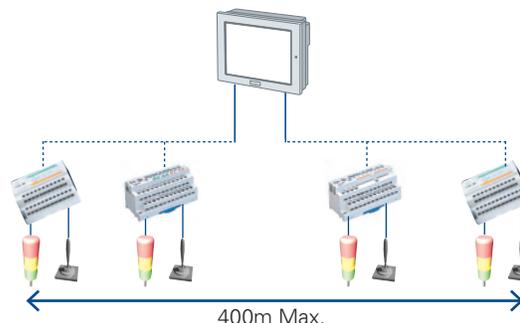
Build a Complete HMI Control System

Create an entire distributed I/O graphical HMI application using Pro-face AGP3000 HMI, GP-Pro EX HMI development software and any combination of Pro-face Flex Network I/O modules.

Features include: timers, counters, logical operations, mathematical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 stations max.

- 256 input points max.
- 256 output points max.
- 64 integer inputs max.
- 64 integer outputs max.



Use one HMI and control development environment to minimize the number of software packages you need to maintain and significantly reduce your support and maintenance costs.

AGP3000 Series HMI Operator Interface and HMI Control

AGP3000 Series Lineup

15 inch



12.1 inch



10.4 inch



AGP-3750T



Display

- TFT Color LCD (65K colors)
- Resolution: 1024 x 768
- Analog Resistive Touch Screen (no grid)

Ports

- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input
- Audio input: Microphone input¹
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules

Environmental

- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions:
W395mm [15.55in] x H294mm [11.57in] x D60mm [2.36in]

AGP-3650T -3600T



Display

- TFT Color LCD (65K colors)
- Resolution: 800 x 600
- Analog Resistive Touch Screen (no grid)

Ports

- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input¹
- Audio input: Microphone input¹
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- Video mix module support
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules
- Flex Network I/O module support²
- Built-in 6-input/2-output sink/source³

Environmental

- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- Ext. dimensions: W313mm [12.31in] x H239mm [9.41in] x D56mm [2.2in]

AGP-3550T -3500T



Display

- TFT Color LCD (65K colors)
- STN Color LCD (4,096 colors)
- Monochrome LCD (16 shades B/W)
- Resolution: 640 x 480
- Analog Resistive Touch Screen (no grid)

Ports

- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input¹
- Audio input: Microphone input¹
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- Video mix module support*
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules**
- Flex Network I/O module support²
- Built-in 6-input/2-output sink/source³

-3500S -3500L

Environmental

- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions – TFT models:
W270.5mm [10.65in] x H212.5mm [8.37in] x D57mm [2.24in]
- External dimensions – STN & Mono models:
W313mm [12.32in] x H239mm [9.41in] x D56mm [2.2in]

* AGP3500T, AGP3550T HMI units only

**Expansion bus and video mix unit cannot be used simultaneously.

		AGP-3750		AGP-3600/3650		AGP-3500/3550				
Display Type		TFT		TFT		TFT	STN		Mono	
Rated Voltage		AC100-240V	DC24V	AC100-240V	DC24V	AC100-240V	DC24V	AC100-240V	DC24V	DC24V
Advanced Multimedia		AGP3750-T1-AF	AGP3750-T1-D24	AGP3650-T1-AF		AGP3550-T1-AF				
HMI Control Integrated	DIO Sink			AGP3600-T1-AF-D81K	AGP3600-T1-D24-D81K	AGP3500-T1-AF-D81K	AGP3500-T1-D24-D81K	AGP3500-S1-AF-D81K	AGP3500-S1-D24-D81K	
	DIO Source			AGP3600-T1-AF-D81C	AGP3600-T1-D24-D81C	AGP3500-T1-AF-D81C	AGP3500-T1-D24-D81C	AGP3500-S1-AF-D81C	AGP3500-S1-D24-D81C	AGP3500-L1-D24-D81C
	Flex Network			AGP3600-T1-AF-FN1M	AGP3600-T1-D24-FN1M	AGP3500-T1-AF-FN1M	AGP3500-T1-D24-FN1M			
Standard HMI				AGP3600-T1-AF	AGP3600-T1-D24	AGP3500-T1-AF	AGP3500-T1-D24	AGP3500-S1-AF	AGP3500-S1-D24	AGP3500-L1-D24

¹AGP3x50 models only

²Discrete I/O AGP3000 "-FN1M" HMI units only

³AGP3000 "-D81K" and "-D81C" HMI units only

Pro-face's uniquely advanced approach to connectivity enables the AGP3000 Series to support existing equipment while accommodating future expansion.



Profibus
Profibus Slave Unit
(CA5-PFSALL/EX-01)

7.5 inch



5.7 inch



AGP-3450T -3400S
-3400T



Display

- TFT Color LCD (65K colors)/STN Color LCD (4,096 colors)
Monochrome LCD (16 shades B/W)
- Resolution: 640 x 480
- Analog Resistive Touch Screen (no grid)

Ports

- Ethernet: 10Base-T/100Base-TX
- USB: One USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input (AGP3450T only)
- Audio input: Microphone input (AGP3450T only)
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- CompactFlash card slot Type II
- Expansion bus port for optional comm. modules
- Flex Network I/O module support²
- Built-in 6-input/2-output sink/source³

Environmental

- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions: W215mm [8.46in] x H170mm [6.69in] x D60mm [2.36in]

AGP-3300T -3301S
-3300S -3301L
-3300L -3302B



Display

- TFT Color LCD (65K colors)
- STN Color LCD (4,096 colors)
- Monochrome LCD (16 shades B/W)
- Blue/white mode LCD (16 shades)
- Resolution: 320 x 240
- Analog Resistive Touch Screen (no grid)

Ports

- Ethernet: 10Base-T/100Base-TX*
- USB: One USB 1.1 Host Type A
- COM Port 1: RS-232/422/485**
- COM Port 2: RS-422/485
- CompactFlash card slot Type II***
- Expansion bus port for optional comm. modules
- Flex Network I/O module support²
- Built-in 6-input/2-output sink/source³

Environmental

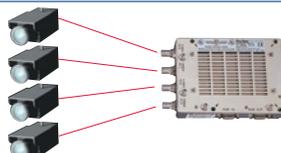
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions: W167.5mm [6.59in] x H135mm [5.31in] x D59.5mm [2.34in]

*Ethernet interface not available on AGP-3301 and AGP-3302 models.

**For model AGP-3302B, COM port 1 is RS232C only.

***CF card interface is not available on model AGP-3302B.

		AGP-3400/3450		AGP-3300/01/02					
				00		01		02	
Display Type		TFT	STN	TFT	STN	Mono	STN	Mono	Blue
Rated Voltage		DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V
Advanced Multimedia		AGP3450-T1-D24							
HMI Control Integrated	DIO Sink	AGP3400-T1-D24-D81K	AGP3400-S1-D24-D81K	AGP3300-T1-D24-D81K	AGP3300-S1-D24-D81K	AGP3300-L1-D24-D81K			
	DIO Source	AGP3400-T1-D24-D81C	AGP3400-S1-D24-D81C	AGP3300-T1-D24-D81C	AGP3300-S1-D24-D81C	AGP3300-L1-D24-D81C			
	Flex Network	AGP3400-T1-D24-FN1M		AGP3300-T1-D24-FN1M		AGP3300-L1-D24-FN1M			
Standard HMI		AGP3400-T1-D24	AGP3400-S1-D24	AGP3300-T1-D24	AGP3300-S1-D24	AGP3300-L1-D24	AGP3301-S1-D24	AGP3301-L1-D24	AGP3302-B1-D24

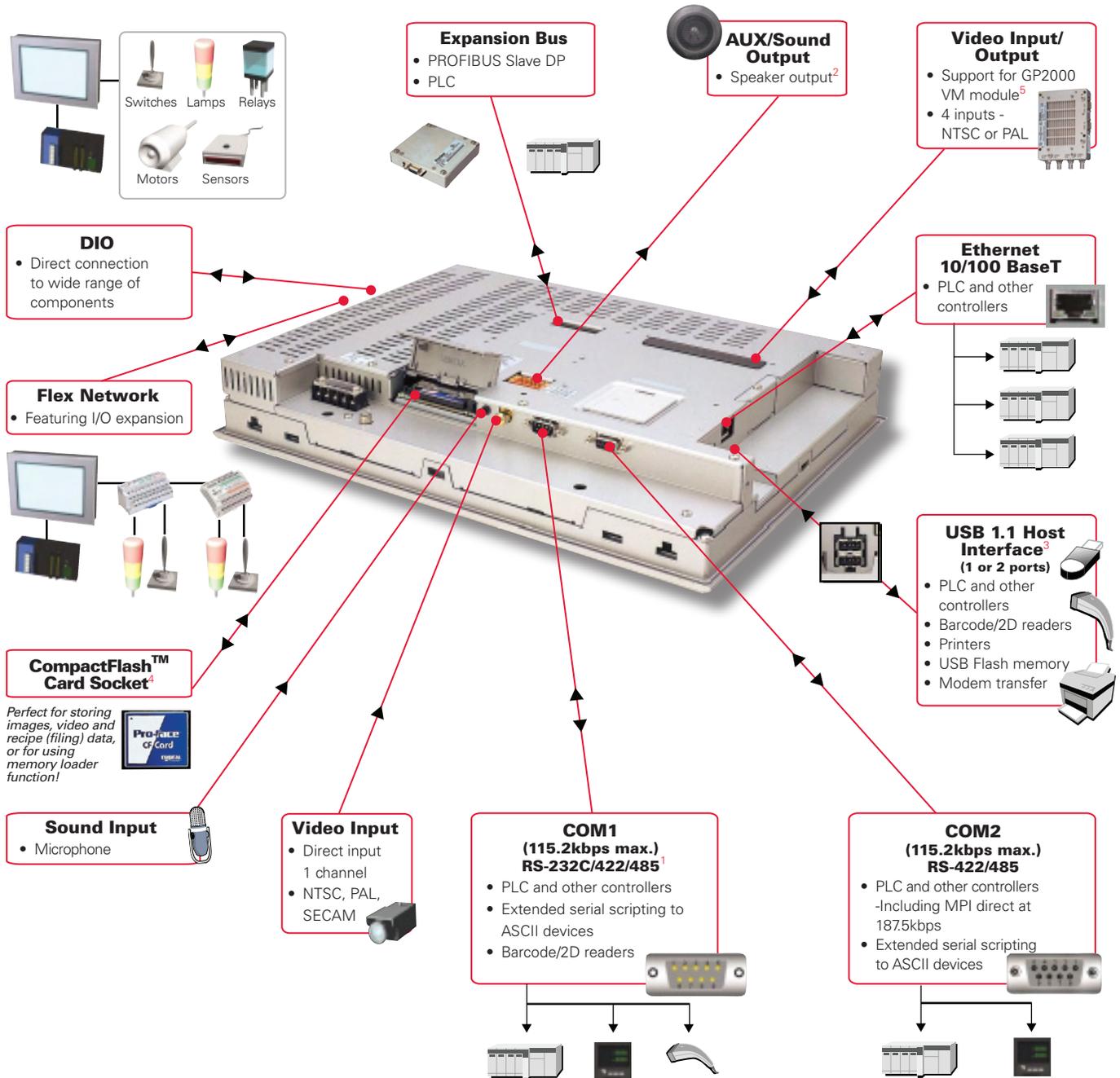


Video Mix Unit Interface

with four-camera NTSC/PAL input +RGB in/out (GP2000-VM41)

The only HMI you need.

The AGP3000's extensive array of connectivity options makes it easy to standardize on one HMI model.



¹ AGP3302-B type model only has RS-232C asynchronous transmission

² AGP34xx, 35xx, 36xx and 37xx models include AUX/sound outputs
Sounds must be converted from .WAV format

³ Requires CA3-USBCB-01 for transfer of screen data

⁴ Not available on 3302B

⁵ Compatible with AGP35xxT and 36xxT TFT display models only

- These interfaces represent the entire line of AGP3000 products. See data sheets for individual model specifications.
- USB - See driver list for supported third-party devices
- Up to four PLC protocols simultaneously (AGP33xx supports two).
- Please refer to documentation for allowable configurations.

Interface to Virtually Anything on the Factory Floor!

Interface/Model	3302B	3300L/S/T	3400S/T	3450T	3500L/S	3500T	3550T	3600T	3650T	3750T
COM1 (115.2kbps max.) RS-232C/422/485	Yes (RS232C ONLY) DB9 Socket Type	Yes								
COM2 (115.2kbps max.; 187.5kbps for MPI direct) RS-422/485	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet 10/100 BaseT	-	Yes								
USB 1.1 Host Interface	1 port	1 port	1 port	1 port	2 ports					
CompactFlash Card Socket	-	Yes								
Expansion Bus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video	-	-	-	1 Ch Video In	-	-	1 Ch Video In	-	1 Ch Video In	1 Ch Video In
GP2000-VM41 Support	-	-	-	Yes	-	Yes	Yes	Yes	Yes	Yes
Sound	-	-	Yes	Yes ¹	Yes	Yes ¹	Yes ¹	Yes	Yes ¹	Yes ¹
DIO	-	Yes ²	Yes ²	-	Yes ²	Yes ²	-	Yes ²	-	-
Flex Network	-	Yes ³	Yes ³	-	Yes ³	Yes ³	-	Yes ³	-	-

¹Sounds must be converted from .WAV format. Note: AGP3x50 models also include one microphone input.
²Sink or Source, depending on model; refer to individual data sheets. ³F/N AC/DC models vary; refer to individual data sheets.

Drivers

PLC Drivers

Rockwell Automation

DF1
DH-485
Ethernet I/P (Native tag support)

Siemens AG

SIMATIC S7 3964(R)/RK512
SIMATIC S7 MPI Direct
SIMATIC S7 Ethernet

GE Fanuc Automation

Series 90 Ethernet (SRTP)
Series 90-30/70 SNP
Series 90-30/70 SNP-X

Schneider Electric

MODBUS SIO¹ Master
MODBUS TCP Master
Uni-Telway
Modbus Slave (SIO¹ or Ethernet¹)

Sharp Mfg. Corp.

JW Series Computer Link SIO

YOKOGAWA Electric Corp.

Personal Computer Link SIO
Personal Computer Link Ethernet

LS Industrial Systems

Master-K Cnet

TOYODA Machine Works

TOYOPUC CMP-LINK SIO
TOYOPUC CMP-LINK Ethernet

Fuji Electric Corp.

MICREX-F Series SIO

Mitsubishi Electric Corp.

A Series CPU Direct
A Series Ethernet
A Series Computer Link
FX Series CPU Direct
FX Series Computer Link
Q Series CPU Direct
Q/QnA Serial Communication
Q/QnA Series Ethernet
Qna Series CPU Direct
QUTE Series CPU Direct
Modbus TCP Master

YASKAWA Electric Corp.

MEMOBUS SIO
MEMOBUS Ethernet

OMRON Corp.

C/CV Series HOST Link
CS/CJ Series Ethernet
CS/CJ Series HOST Link

Hitachi Industrial Equipment Systems

HIDIC H Series Ethernet
HIDIC H Series

Matsushita Electric Works

FP Series Computer Link SIO

KEYENCE Corp.

KV-700/1000 Series CPU Direct

Saia-Burgess Controls

SAIA S-Bus SIO

Temperature Controllers

Yamatake Corp.

Digital Controller SIO

RKC Instrument

Temp. Controller MODBUS SIO

OMRON Corp.

Temp. Controller CompoWay/F

Fieldbus Module

PROFIBUS International

PROFIBUS DP Slave

Other Connections

Digital Electronics Corp.

Memory Link
General Ethernet (using D-Script)¹

¹Contact your local sales rep for availability.

Barcode, 2D Readers & Printers

	Manufacturer	Model	Type	Comments
Serial	Aimex Corporation	BR-530RS	Pen	Requires BB-60 power supply
	OPT Electronics	OPT-6125-RS	Touch Scanner (read width: 65mm)	Requires DC5300T for power
	Denso Co.	HC-36IITR	Touch Scanner (read width: 61mm)	Requires P-200 for power, also requires KRS-423-XF1K (from Sanwa Supply) connector cable
	HHP	IT3800LR-12	Linear imager	Requires cable 42203758-03 (IT3800LR-12 Reader has been shown to work but is not fully tested)
USB	Aimex Corporation	BR-530UK	Pen	Power supply not required
	OPT Electronics	OPT-6125-USB	Touch Scanner (read width: 65 mm)	Power supply not required
	Denso Co.	HC-36TU-K	Touch Scanner (read width: 61mm)	Power supply not required
	HHP	IT5800	Hand-held Industrial Scanner	5800SR050-0F00 is complete with USB cable
	Symbol	LS3408-FZ	Hand-held Industrial Scanner	Part #LS3408-FZ20005 needs cable CBA-U01-S07ZA
	Epson	Stylus Photo R200	Inkjet printer	Use USB cable FP-US00 or commercial type
	Epson	ECS/P24-J84(C)	Command printer	Use USB conversion cable IEE1284 (commercially available)
	NEC	PC-PR201-PL	Command printer	Use USB conversion cable IEE1284 (commercially available)

AGP3000 Connectivity and Installation Accessories



USB Transfer Cable (1m)
CA3-USBCB-01
 Downloads project data created with GP-Pro EX from PC's USB port to AGP's USB port.



USB Cable (5m)
FP-US00
 Connects a USB printer (Type B) port to AGP's USB port.



USB Front Cable (1m)
CA5-USBEXT-01
 USB extension cable.



RS-232 Cable (5m)
CA3-CBL232/5M-01
 Connects Mitsubishi PLC A-Series to the AGP RS-232 COM port.



GP RS-422 Cable (5m)
CA3-CBL422-01
 Connects the AGP RS-422 COM port 2 via 9-pin plug to host controller via open wires.



RS-422 Cable (5m)
CA3-CBL422/5M-01
 Connects the AGP RS-422 COM port 1 via 9-pin socket to host controller via open wires.



Mitsubishi PLC A-Series Connection Cable (5m)
CA3-CBLA-01
 Connects Mitsubishi PLC A-Series and QnA-Series programming console port to AGP.



Mitsubishi PLC Q-Series Cable (5m)
CA3-CBLQ-01
 Connects Mitsubishi PLC Q-Series programming console port to AGP. Connection cable.



Mitsubishi PLC Q-Series Cable (5m)
CA3-CBLLNKMQ-01
 Connects Mitsubishi PLC Q-Series to the AGP RS-232C COM port. Link cable.



Mitsubishi PLC FX-Series Cable
CA3-CBLFX/5M-01 (5m)
CA3-CBLFX/1M-01 (1m)
 Connects Mitsubishi PLC FX-Series programming console port to AGP RS-422 COM port.



Omron PLC SYSMAC Link Cable (5m)
CA3-CBLSYS-01
 Connects Omron PLC SYSMAC Series unit to AGP RS-232C port.



GP Multi-Link Cable (5m)
CA3-CBLMLT-01
 Connects a host controller to the AGP RS-422 port for multi-link (n:1) communication.



GP 2 Port Adapter Cable (5m)
CA3-MDCB11
 Connects Mitsubishi PLC to the AGP RS-422 port using 2-port adapter II (GP070-MD11).



9-pin-to-25-pin RS-232C Conversion Cable
CA3-CBLCBT232-01
 9-pin D-sub socket to 25-pin RS-232 cable adapter (for use with some HMI-CAB-Cxxx cables).



9-pin-to-25-pin RS-422 Conversion Cable
CA3-CBLCBT422-01
 9-pin D-sub socket to 25-pin RS-422 cable adapter (for use with some HMI-CAB-Cxxx cables).



Allen-Bradley SLC 5/03, 5/04 Series Cable
HMI-CAB-ST52
HMI-CAB-ST52-30X
HMI-CAB-ST52-50X
 Connects AGP3000/ST401 to A-B PLC via RS-232 9-pin D-sub.



Ethernet Crossover Cable
HMI-CAB-ETH
 6-ft. HMI to PLC Ethernet port or to program HMI.



Micrologix PLC Cable
HMI-CAB-ST106
 Connects AGP3000/ST401 to PLC RS-232 8-pin DIN port.



PLC Adapter Cable
HMI-CAB-ST001
 Connects to AGP3000/ST40x serial port with 9-conductor open-ended wires for connecting to third-party screw terminal devices.



RS-232C Cross-Type Cable (5m)
GP410-IS00-0
 25-pin D-sub connector both ends. Requires CA3-CBLCBT232-01.



Serial USB Cable for Modem Download
CA6-USB232-01

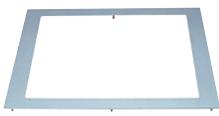


1-Amp Power Supply
510-1000-004
2-Amp Power Supply
510-1000-041
 24VDC Din-Rail Mount Class 1 Div 2.

RS-485 Isolation Unit
CA3-ISO485-01

RS-232 Isolation Unit
CA3-ISO232-01

Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable, or RS-232C and RS-422 are switchable).

 <p>GP-Pro EX Editor Software EX-ED-V11 (Includes one user license.) Movie Converter Software EX-MOVCON-LICENSE Additional User License EX-ED-LICENSE</p>	 <p>Pro-Server EX Data Management Software EX-SDV-V10 (Includes one user license.) Additional User License EX-SED-LICENSE</p>	 <p>Siemens COM Port Conversion Adapter CA3-ADPSEI-01 9-pin D-sub to MPI adapter. Adapts COM port to accept Profibus MPI-style connectors and cables.</p>	 <p>COM Port Conversion Adapter CA3-ADPCOM-01 9-pin D-sub plug to 9-pin D-sub socket adapter for AGP3000 COM port 1. Not intended for AGP3302 model.</p>	 <p>Online Adapter CA4-ADPONL-01 9-pin D-sub plug to 9-pin D-sub socket adapter for AGP3000 COM port 2 only. NOTE: Includes network pull- up/pull-down resistors. Not intended for AGP3302 model.</p>
 <p>AUX Connector CA5-AUXCNALL-01 The AUX connector for AGP3000 series required in case an external output is used.</p>	 <p>Terminal Block Conversion CA3-ADPTRM-01 9-pin male D-sub to screw terminal.</p>	 <p>Mitsubishi PLC A, QnA, FX Series 2-Port Adapter II GP070-MD11 Allows simultaneous use of an AGP3000 Series unit and a Mitsubishi PLC A, QnA, FX series peripheral device.</p>	 <p>DC Power Supply Connector for AGP330x and AGP34x0 models CA5-DCCNM-01</p>	 <p>DC Power Supply Connector for AGP35x0 and AGP36x0 models CA5-DCCNL-01</p>
 <p>Installation Fastener CA3-ATFALL-01 Used to install the AGP3000 Series into a solid panel (included with unit).</p>	 <p>USB Cable Clamp (2-port) CA5-USBATL-01 USB cable clamp for 2-port HMI units to prevent disconnection.</p>	 <p>USB Cable Clamp (1 port) CA5-USBATM-01 USB cable clamp for 1-port HMI units to prevent disconnection.</p>	 <p>Panel Cutout Adapter for AGP3500 Series CA4-ATM10-01 Panel cutout adapter for mounting in cutout of GP2500 (TFT).</p>	 <p>Panel Cutout Adapter for AGP3300 Series CA4-ATM5-01 Panel cutout adapter for mounting in cutout of GP37W2B.</p>
 <p>PROFIBUS Slave Unit CA5-PFSALL/EX-01 PROFIBUS slave communication module for connecting AGP to PROFIBUS DP network.</p>	 <p>CF Card Adapter GP077-CFAD10 Used for read/write of CF card data via a PC's PCMCIA slot.</p>	 <p>CompactFlash card inserts into the unit's CF card slot.</p> <p>128MB CA3-CFCALL/128MB-01</p> <p>256MB CA3-CFCALL/256MB-01</p> <p>512MB CA3-CFCALL/512MB-01</p>	<p>AGP3500T/AGP3550T Backlight Replacement CA5-BLU10T-01</p> <p>AGP3750T Backlight Replacement CA3-BLU15-01</p> <p>AGP3600T/AGP3650T Backlight Replacement CA3-BLU12-01</p> <p>AGP3500S/GP2501S Backlight Replacement PS501S-BU00</p> <p><i>Note: AGP3300, AGP3400 and AGP3500L backlights cannot be replaced in the field.</i></p>	 <p>Protection Sheets Disposable, dirt-resistant cover for screen (5 sheets/set)</p> <p>15" for AGP3750 series CA3-DFS15-01</p> <p>12" for AGP3600 series CA3-DFS12-01</p> <p>10" for AGP3500 series CA5-DFS10-01</p> <p>8" for AGP3400 series PS400-DF00</p> <p>6" for AGP3300 series CA3-DFS6-01</p>

I/O Expansion Options

Expand the reach of your HMI operator interface

Need some extra I/O? Now there's no need to buy an extra controller when you just need a few more I/O points. The AGP3000 Series of HMI operator interfaces includes models that feature built-in discrete I/O. Or, expand to a distributed I/O network by choosing a model with the optional flex network interface. The choice is yours. Either way, you'll save money with these cost-effective options.

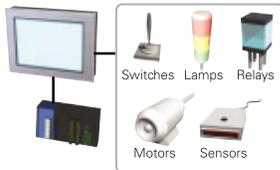
HMI Control With Integrated I/O

AGP3000 "DK81C/DK81K" Units

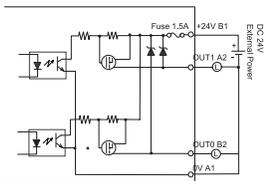
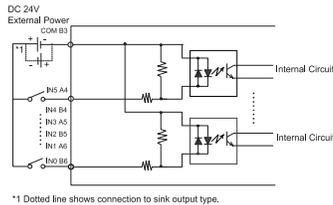
Built-in discrete I/O for when you need a few extra I/O points.

DIO type for direct connection to components

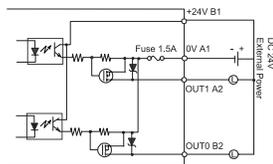
- III DIO (sink) type: 6 inputs/2 outputs
- III DIO (source) type: 6 inputs/2 outputs



A wide range of components can be used for ON/OFF control.



Source Outputs "DK81C"



Sink Outputs "DK81K"

Built-in 6 discrete inputs, 2 outputs

HMI Control for Distributed I/O

AGP3000 "FN1M" Units

Flex network interface for distributed I/O applications.

Flex network type featuring I/O expansion

- III Maximum number of expandable I/Os:
512-bit I/Os (256 inputs and 256 outputs)
128 integral I/Os (64 inputs and 64 outputs)



Mix and match any flex network I/O modules to fit your application needs

Discrete I/O modules

FN-X16TS41	16-pt discrete input
FN-X32TS41	32-pt discrete input
FN-Y08RL41	8-relay discrete output
FN-Y16SK41	16-pt discrete sink output
FN-Y16SC41	16-pt discrete source output



FN-X16TS41



FN-X32TS41



FN-Y08RL41



FN-Y16SK41



FN-Y16SC41

Discrete high-density I/O modules

FN-XY08TS41	8-pt discrete input, 8-pt sink output
FN-XY16SK41	16-pt discrete input, 16-pt sink output
FN-XY16SC41	16-pt discrete input, 16-pt source output
FN-XY32SKS41	32-pt discrete input, 32-pt sink output



FN-XY08TS41



FN-XY16SK41



FN-XY16SC41



FN-XY32SKS41

Analog I/O modules

FN-AD02AH41	Input 2-Ch: 0-10VDC 0-20ma, 4-20ma
FN-AD04AH11	Input 4-Ch: 0-10VDC, +/-10VDC, 0-20ma, 4-20ma
FN-DA02AH41	Output 2-Ch: 0-10VDC 0-20ma, 4-20ma
FN-DA04AH11	Output 4-Ch: 0-10VDC, +/-10VDC, 0-20ma, 4-20ma



FN-AD02AH41



FN-DA02AH41

With the AGP3000 family, you can create a complete HMI monitoring and control system in the same software development environment!

Our Commitment to You



A global company
with a local presence

Reliable operations worldwide

Pro-face products are known worldwide for their reliability, and they are just as reliable in your facility as they are everywhere else in the world. Our extensive certifications and global support network provide you complete peace of mind. Whether you're looking for HMI products for your own facility or for facilities around the world, Pro-face is there to serve you.



Committed to bringing you the best HMI products

No other HMI company will offer you more options, higher reliability or better investment protection than Pro-face. Pro-face strives to continually provide you with HMI products that have features you won't find anywhere else, like ultra-fast 64-bit RISC processors for unmatched HMI performance, the ultimate in multimedia and connectivity capabilities, plus integrated data management solutions and other features proven to boost your productivity and reduce your costs.

The best HMI protection
money can buy.

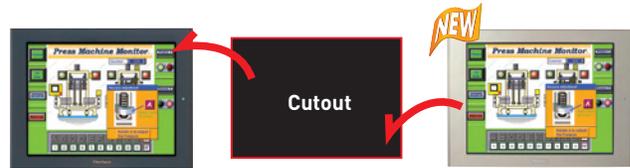
Protecting your investment



If you're already a Pro-face customer, then you realize the investment protection we've built into our operator interfaces. No other operator interface company can offer you:

- 16 years of cutout compatibility
- Built-in HMI application software migration tools
- Continuous software and hardware enhancements
- Local field application engineers ready to assist you
- A two-year warranty
- In-stock, next-day shipments

Drag out the old...drop in the new



Older GP2000, GP77R, GP70, GP*50, GP*30, and GP*10 Series

AGP3000 Series

Panel cutout dimensions

Size (mm)	191.5x141.5	156x123.5	204.5x159.5	259x201	301.5x227.5	383.5x282.5
GP77R Series	GP-37W2B	GP377R Series	—	GP-477RE	GP577R Series	—
GP2000 Series	—	GP230* Series	GP240* Series	—	GP260* GP250* Series	—
GP3000 Series	GP-3300 Series		GP-3400 Series	GP-3500 Series(TFT)	GP-3600 GP-3500(STN) Series	GP-3700 Series

Note: In some instances, an available adapter plate may be required.



Xycom Automation LLC
750 North Maple Road
Saline, MI 48176 USA
Tel: 734-429-4971 or
Toll Free: 800-AT-XYCOM
Fax: 734-429-1010
<http://www.xycom.com>
Email: sales@xycom.com

Customer Care Center:
Tel: 734-944-0482
Web Support: <http://support.xycom.com>
Email: customer-care@xycom.com



WORLDWIDE SUPPORT

Global Head Office

Digital Electronics Corporation
Osaka JAPAN
Tel: +81 (0)6 6613 3116
Fax: +81 (0)6 6613 5888
<http://www.pro-face.com.cn>
info@pro-face.com

China

Pro-face China International Trading
(Shanghai) Co., Ltd.
Shanghai P. R. CHINA
Tel: +86 (0)21 6361 5175
Fax: +86 (0)21 6361 5176
<http://www.proface.com.cn>
proface@proface.com.cn

South-East Asia Pacific

Pro-face South-East Asia Pacific
Co., Ltd.
Bangkok THAILAND
Tel: +66 (0)2 260 8282
Fax: +66 (0)2 260 8283
<http://www.proface.co.th>
support@proface.co.th

South Korea

Pro-face Korea Co., Ltd.
Seoul SOUTH KOREA
Tel: +82 (0)2 2630 9850
Fax: +82 (0)2 2630 9860
<http://www.proface.co.kr>
proface@proface.co.kr

Taiwan

Pro-face Taiwan Co., Ltd.
Taipei TAIWAN
Tel: +886 (0)2 2657 1121
Fax: +886 (0)2 2657 1021
<http://www.proface.com.tw>
proface@proface.com.tw

Australia and New Zealand

Pro-face Australia Pty Ltd.
Melbourne AUSTRALIA
Tel: +61 (0)3 9550 7395
Fax: +61 (0)3 9550 7390
<http://www.pro-face.com.au>
<http://www.pro-face.co.nz>
pfau@pro-face.com

North/South American Head Office

Pro-face America / Xycom
Saline, MI U.S.A.
Tel: +1 734 429 4971
Fax: +1 734 429 1010
<http://www.profaceamerica.com>
sales.info@profaceamerica.com

European Head Office

Pro-face Europe B.V.
Hoofddorp THE NETHERLANDS
Tel: +31 (0)23 55 44 099
Fax: +31 (0)23 55 44 090
<http://www.proface.com>
info@proface.com

France

Pro-face France S.A.S.
Mitry-Mory FRANCE
Tel: +33 (0)1 60 21 22 91
Fax: +33 (0)1 60 21 22 92
<http://www.proface.fr>
info@proface.fr

Germany

Pro-face Deutschland GmbH
Solingen GERMANY
Tel: +49 (0)212 258 260
Fax: +49 (0)212 258 2640
<http://www.pro-face.de>
sales@pro-face.de

Italy

Pro-face Italia S.p.a.
Bovisio Masciago (Milano) ITALY
Tel: +39 0362 59 96 1
Fax: +39 0362 59 96 69
<http://www.proface.it>
info@proface.it

Poland

Pro-face Europe B.V.
(Warsaw Office)
Warsaw POLAND
Tel/Fax: +48 22 850 9154
<http://www.proface.pl>

Scandinavia

Pro-face Scandinavia ApS
Glostrup (Copenhagen) DENMARK
Tel: +45 70 22 01 22
Fax: +45 70 22 01 33
<http://www.pro-face.eu.net>
info@pro-face.dk

Spain and Portugal

Pro-face España
Cardedeu (Barcelona) SPAIN
Tel: +34 (0)93 846 07 45
Fax: +34 (0)93 845 48 68
<http://www.pro-face.es>
central@pro-face.es

Sweden

Pro-face Sweden AB
Loddeköpinge (Malmo) SWEDEN
Tel: +46 46 540 90 70
Fax: +46 46 71 27 90
<http://www.pro-face.eu.net>
info@pro-face.se

Switzerland

Pro-face Deutschland GmbH
Regensdorf SWITZERLAND
Tel: +41 (0)43 343 7272
Fax: +41 (0)43 343 7279
<http://www.pro-face.ch>
info@pro-face.ch

United Kingdom

Pro-face UK Ltd
Coventry ENGLAND
Tel: +44 (0)2476 440088
Fax: +44 (0)2476 440099
<http://www.profaceuk.com>
info@profaceuk.com

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