



HG3G Operator Interface Touchscreens

New Features!

10.4"

8.4"



Portrait



Landscape

- 8.4" and 10.4" Color TFT LCD Display
- 65,536 Color LCD
- SVGA 800 x 600 Pixel Resolution
- Super Bright: 600cd/m² (8.4"), 700cd/m² (10.4")
- Mounts Portrait or Landscape
- Remote Access, Monitor and Control
- Supports 2 Expansion I/O Modules
- Serial, Ethernet and USB ports



HG3G Series - Powerful, fast and easy to operate!

The newest line of IDEC OI Touchscreens, the HG3G series, surpass all standards with powerful features and the ability to remotely access, monitor and control your application. A 400MHz high-speed CPU processor allows data to be read and processed quickly, while the SD card and USB flash drive, along with the serial, Ethernet and USB ports, provide many connectivity options.

The HG3G Series supports the addition of up to two IDEC MicroSmart digital I/O cards and can be mounted in either portrait or landscape mode, making it a flexible display that can accommodate all your application needs.

High-performance Touchscreens



New Remote Monitor and Control

Remotely access your touchscreen over the internet for trouble shooting and testing or maintenance. This saves you time and travel expenses.

- Upload, download or pass through programming
- Using your web browser you can monitor and control touchscreens using a PC, PDA or smartphone

Sharp Displays with Excellent Clarity

- SVGA Resolution (800 x 600 pixels)
- Support of 65,536 colors

Brightest in the Market

- 600cd/m² (8.4"), 700cd/m² (10.4")

Large Memory Capacity

- 12MB of user memory
- Additional memory using SD cards or USB flash drives

Fast 400MHz CPU Processor

- Quick operation and immediate response to commands
- Fast startup (within 3 seconds)



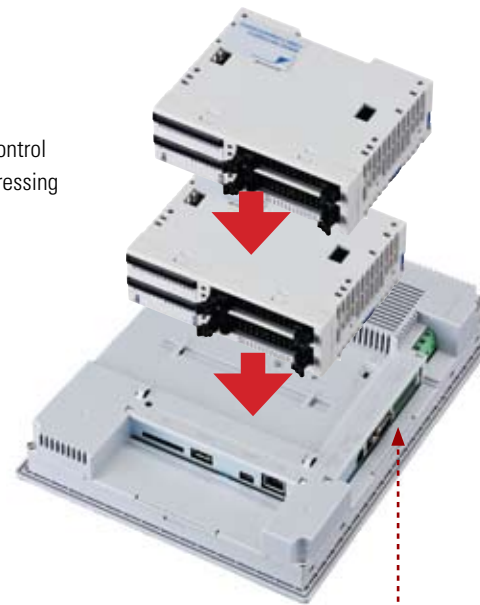
Audio Out

- External speaker with a built-in amplifier can be attached for sound output including prerecorded messages
- Store up to 1,024 sound files in WAV file format

Amazing Expandability – up to 64 I/O

Easy I/O Control

- Install up to two IDEC MicroSmart digital I/O cards for simple control
- Digital I/O is programmed using script commands or object addressing in the programming software



Powerful Connectivity

SD Card

- Supports up to a 32GB SD card for storage
- Store IDEC MicroSmart ladder and touchscreen programs, pictures, logging data, alarm logs, screen hard copies, recipe data, operation logs and audio files

USB Port A (USB 2.0)

- Store logging data and screen capture
- Connect barcode readers for labelling

USB Port Mini B

- Make system maintenance easier by utilizing the high-speed data transfer
- Connect PC directly to the HG3G for program upload/download/monitor
- USB printers can be connected directly



2 Serial Ports:

Two serial ports, RS232 and RS485 (422)

- Host - communicate to a PLC/Device in a 1:1 or 1:N PLC Communication
- Subhost - communicates to an IDEC MicroSmart/Pentra PLC or Modbus RTU devices
- OI Link Communication – network to a single IDEC MicroSmart PLC with multiple HG2G/HG3Gs, where 1 is a master and up to 15 slaves can be connected
- User Communication – use transmit/receive instructions to build your own protocol

Ethernet Port

- 10BaseT or 100Base-TX connection
- Remote communication with the PLC
- Access, monitor and control remotely via web browser using PC, PDA or smartphone

Programming Software - WindO/I-NV2

Intuitive, Drag-and-Drop Functionality

- Programming software for all IDEC OI touchscreens
- Built-in library of over 7,000 symbols
- Built-in PLC drivers to communicate with other manufacturers' PLCs, security, script, multilingual capabilities, and many more features



Specifications

| | | | |
|-------------------------------|--|---|--|
| General Specifications | Rated Power Voltage | 24V DC | |
| | Power Voltage Range | 20.4 to 28.8V DC | |
| | Power Consumption | 25W maximum | |
| | | 15W maximum when not using USB interface (USB2) or expansion module interface (EXT) | |
| | Allowable Momentary Power Interruption | 10ms maximum | |
| | Inrush Current | 30A maximum | |
| | Dielectric Strength | 1000V AC, 10mA, 1 minute between power and FG terminals | |
| | Insulation Resistance | 10MΩ minimum between power and FG terminals (500V DC megger) | |
| | Operating Temperature | 0 to +50°C | |
| | Operating Humidity | 10 to 90% RH (no condensation) | |
| | Storage Temperature | -20 to +60°C | |
| | Storage Humidity | 10 to 90% RH (no condensation) | |
| | Pollution Degree | 2 | |
| | Vibration Resistance | 5 to 9Hz amplitude 3.5 mm, 9 to 150Hz, acceleration 9.8m/s ² | |
| | | 10 cycles (100 minutes) on each of three mutually perpendicular axes | |
| | Shock Resistance | 147 m/s ² , 11ms | |
| | | 5 shocks on each of three mutually perpendicular axes | |
| | Noise Immunity | Fast transient/burst test, Power terminals: ±2kV, Communication line: ±1 kV (IEC 61131-2: 2007) | |
| | Electrostatic Discharge | Contact ±6kV, air ±8kV (IEC 61131-2: 2007) | |
| | Corrosion Immunity | Free from corrosive gases | |
| Mounting | Panel mounting | | |
| Degree of Protection | IP66 | | |
| Dimensions | HG3G-8: | 231.0W × 176.0H × 54.4D mm | |
| | HG3G-A: | 270.0W × 212.0H × 52.7D mm | |
| Weight (approx.) | HG3G-8: | 2.75lbs | |
| | HG3G-A: | 3.64lbs | |
| Switching Element | Analog resistive membrane | | |
| Operating Force | 0.55 to 2.3N | | |
| Mechanical Life | 1,000,000 operations | | |
| Sound | Electronic buzzer or speaker output | | |

Do not use the HG3G in an environment subject to strong ultraviolet rays, otherwise the LCD quality will deteriorate.

Part Numbers

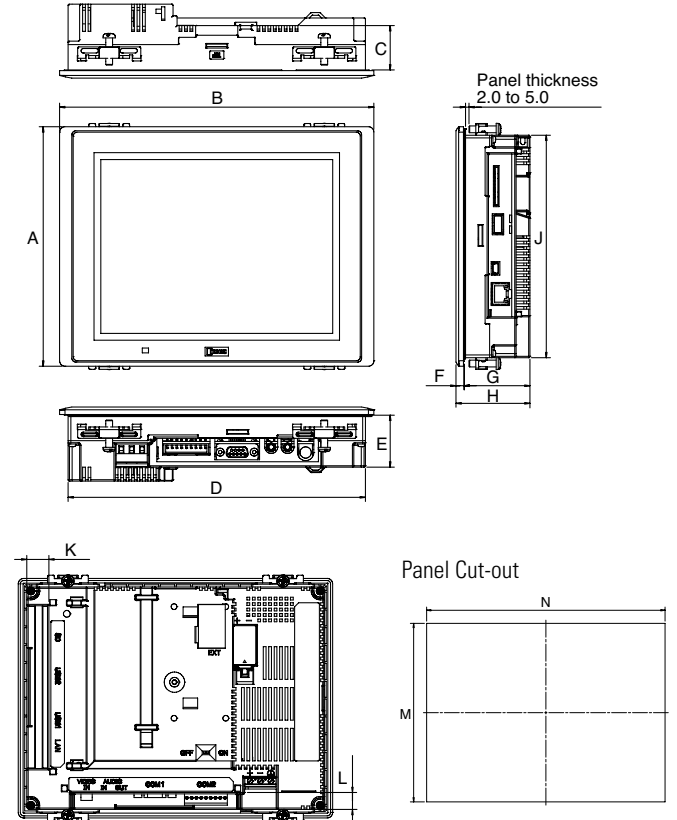
| Display Screen | Housing/Bezel Color | Part Number |
|-------------------------|---------------------|----------------|
| 8.4-inch TFT color LCD | Light gray | HG3G-8JT22TF-W |
| | Dark gray (black) | HG3G-8JT22TF-B |
| 10.4-inch TFT color LCD | Light gray | HG3G-AJT22TF-W |
| | Dark gray (black) | HG3G-AJT22TF-B |

Accessories

| Part Number | Qty | Description |
|-------------|-----|---|
| HG9Z-XCM2A | 1 | USB Programming Cable |
| HG9Z-3D8 | 1 | Protective Sheet for 8.4" Display |
| HG9Z-3DA | 1 | Protective Sheet for 10.4" Display |
| HG9Z-XMS2 | 1 | SD Card, 2GB |
| HG9Z-PMT10L | 1 | L-shaped Terminal Block for MicroSmart I/O Module (10-pole) |
| HG9Z-PMT11 | 1 | L-shaped Terminal Block for MicroSmart I/O Module (11-pole) |
| HG9Z-4K2 | 1 | Replacement Mounting Clip (order in multiples of 4) |
| HG9Z-XU1 | 1 | USB Cable Lock Pin |
| HG9Z-XJ1 | 1 | Expansion Module Clamp (short size). Use with 1 module or combination of 8, 16 I/O module |
| HG9Z-XJ2 | 1 | Expansion Module Clamp (long size). For supported comb. module, check WindOI-NV2 manual |

| Display Specifications | Display Color | TFT Color LCD | |
|------------------------|----------------------------------|---|--------------------|
| | Color/Shade | 65,536 colors | |
| | Effective Display Area | HG3G-8: | 170.4W × 127.8H mm |
| | | HG3G-A: | 211.2W × 158.4H mm |
| | Display Resolution | 800W × 600H pixels | |
| | View Angle | Right and left 80°, up 80°, down 60° | |
| | Backlight | LED | |
| | Backlight Life | 60,000 hours nominal* | |
| | Brightness | HG3G-8: 600 cd/m ² , HG3G-A: 700 cd/m ² | |
| | Brightness Adjustment | 32 shades | |
| User Memory | 12MB (including expansion fonts) | | |

*The backlight life refers to the time until the surface brightness reduces by half after continuous use at room temperature.

Dimensions (mm)

Dimension Table (mm)

| | 8.4" HG3G-8 | 10.4" HG3G-A | | 8.4" HG3G-8 | 10.4" HG3G-A |
|----------|-------------|--------------|----------|-------------|--------------|
| A | 176 | 212 | H | 54.4 | 52.7 |
| B | 231 | 270 | J | 163.5 | 199.5 |
| C | 32.6 | 30.9 | K | 21 | 50.2 |
| D | 218.5 | 257.5 | L | 12.4 | 12.4 |
| E | 38.2 | 36.5 | M | 164 | 200 |
| F | 6 | 6 | N | 219 | 258 |
| G | 48.4 | 46.7 | | | |


Support Information

Software demos & upgrades: www.IDEC.com/software

PLC drivers: www.IDEC.com/oi/drivers

OI to PLC Cables: www.IDEC.com/usa/HG3G