

Enhanced HMI

5.7" HG2G-5T Series



Landscape Color 5.7" HMI

Portrait Monochrome 5.7" HMI

SPECIFICATIONS

| | |
|--|--|
| Model | HG2G-5TT (Color) / HG2G-5TN (Monochrome) |
| Rated Power Voltage | 12-24V DC |
| Power Voltage Range | 10.2 to 28.8V DC |
| Power Consumption | 8W maximum 4W maximum when not using USB interface (USB2) |
| Allowable Momentary Power Interruption | 10ms maximum (Voltage 20.4 to 28.8V DC) 1ms maximum (Voltage 10.2 to 20.4V DC) |
| Inrush Current | 40A maximum |
| Dielectric Strength | 1000V AC, 10 mA, 1 minute between power and FG terminals |
| Insulation Resistance | 50 MΩ minimum between power and FG terminals (500V DC megger) |
| Operating Temperature | -20 to +60°C (no freezing) |
| Operating Humidity | 10 to 90% RH (no condensation) |
| Storage Temperature | -20 to +70°C (no freezing) |
| Storage Humidity | 10 to 90% RH (no condensation) |
| Pollution Degree | 2 |
| Vibration Resistance | 5 to 8.4 Hz amplitude 3.5 mm, 8.4 to 150 Hz, acceleration 9.8 m/s ² 10 cycles (100 minutes) on each of three mutually perpendicular axes |
| Shock Resistance | 147 m/s ² , 11 ms 5 shocks on each of three mutually perpendicular axes |
| Noise Immunity | Fast transient/burst test, Power terminals: ±2 kV, Communication line: ±1 kV (IEC/EN61000-4-4) |
| Electrostatic Discharge | ESD-3 (RH-1) Level 3 (Contact ±6 kV, air ±8 kV) (IEC/EN61000-4-2) |
| Corrosion Immunity | Free from corrosive gases |
| Mounting | Panel mounting |
| Degree of Protection | IP66F (IEC 60529) (front part when mounted) *1 TYPE 4X TYPE 13 *2 |
| Dimensions | 167.2 W × 134.7 H × 40.9 D mm |
| Weight (approx.) | 0.5 kg |

Do not use the HG2G in an environment subject to strong ultraviolet rays, otherwise the LCD quality will deteriorate.

*1 Protection degree of the front surface after mounting. Operation not guaranteed

*2 Operation not guaranteed when used with certain types of oils under certain environments.

PRODUCT DESCRIPTION

The 5.7" HG2G Enhanced HMI is a significant upgrade from the previous 5.7" Basic series. Choose from a super-bright 65K color TFT LCD screen with 500cd/m² or a 16 shade monochrome version with 1100cd/m² resolution, featuring an LED backlight life of 100,000 hours. With powerful features and the ability to remotely access, monitor and control applications, the new HG2G series also supports up to four protocols simultaneously and offers a wide operating temperature of -20°C to 60°C, making it ideal for harsh environments.

KEY FEATURES

- 5.7-inch TFT LCD HMI
- 65K color, 16 shade monochrome
- Super-bright display:
 - 500 cd/m² (color)
 - 1100 cd/m² (monochrome)
- Wide range of operating temperatures: -20°C to 60°C
- Backlight Longevity: >100,000 hours
- Remote monitor and control
- Support up to four protocols simultaneously
- Portrait and landscape mounting
- Resistive analog touchscreen
- 2 Serial, 2 USB and Ethernet ports
- Rated Power Voltage: 12 – 24VDC
- IP 66F, Type 4X, Class I Div 2



PART NUMBERS

| Display Type | Bezel Color | Part Number |
|----------------------------------|-------------|----------------|
| 5.7" TFT Color LCD, 65536 Colors | Light Gray | HG2G-5TT22TF-W |
| | Black | HG2G-5TT22TF-B |
| | Silver | HG2G-5TT22TF-S |
| 5.7" TFT Monochrome LCD | Light Gray | HG2G-5TN22TF-W |
| | Black | HG2G-5TN22TF-B |
| | Silver | HG2G-5TN22TF-S |

SOFTWARE AND PROGRAMMING CABLES

| Description | Part Number |
|---|-------------|
| Automation Organizer Software Suite (Includes WindLDR (for PLCs), WindO/I-NV2 (for HMIs), WindO/I-NV4 (new HG2G) and WindCFG (system configuration tool)) | SW1A-W1C |
| USB Programming Cable | HG9Z-XCM2A |

SPECIFICATIONS

Display

| Model | HG2G-5TT | HG2G-5TN |
|------------------------|---|---|
| Display | TFT Color LCD | TFT Monochrome LCD |
| Color/Shade | 65,536 | 16 shades |
| Effective Display Area | 115.2W × 86.4H mm | |
| Display Resolution | 320W × 240H pixels | |
| View Angle | Right and left 80°, up 80°, down 80° | Right and left 65°, up 80°, down 60° |
| Backlight | LED | |
| Backlight Life | 100,000 hours minimum*1 | |
| Brightness | 500 cd/m ² *2 | 1100 cd/m ² *2 |
| Brightness Adjustment | 32 levels | |
| Backlight Replacement | Not possible | |

*1 The backlight life refers to the time until the brightness reduces by half after use at 25°C.

*2 Brightness of the LCD only.

Function

| | |
|---------------------------|---|
| Screen Types | Base screen, popup screen, system screen |
| No. of Screens | Base screen: 3,000 max. Popup screen: 3,015 max. |
| User Memory | 5 MB (including expansion fonts) |
| Parts | Bit Button, Word Button, Goto Screen, Print Button, Key Button, Multi Button, Keypad, Selector Switch, Potentiometer, Numerical Input, Character Input, Pilot Lamp, Multi-State Lamp, Picture Display, Message Display, Message Switching Display, Alarm List Display, Alarm Log Display, Numerical Display, Bar Graph, Trend Chart, Pie Chart, Meter, Calendar, Bit Write Command, Word Write Command, Goto Screen Command, Print Command, Screen Script Command, Multi Command, Timer |
| Calendar | Year, Month, Day, Hour, Min., Sec., Day of Week ±60 sec per month (at 25°C) |
| Power Failure Backup Data | Calendar, log data, keep internal relay, keep internal register |
| Battery | Recommended replacement span: every 4 years (at 25°C) |

Operation

| | |
|-----------------------|---------------------------|
| Switching Element | Analog resistive membrane |
| Operating Force | 3N maximum |
| Mechanical Life | 1,000,000 operations |
| Acknowledgement Sound | Electronic buzzer |

Interface

| Serial Interface 1 (COM1)* | RS232C | Electrical Characteristics | EIA RS232C compliant |
|----------------------------|---------------|--|--|
| | | Transmission Speed | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps |
| Synchronization | | Asynchronous | |
| Communication Method | | Half or full duplex | |
| Control System | | Hardware control or none | |
| Connector | | Detachable 9-pin terminal block | |
| Serial Interface 2 (COM2)* | EIA RS422/485 | Electrical Characteristics | EIA RS422/485 compliant |
| | | Transmission Speed | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 187500 bps (Note) |
| | | Synchronization | Asynchronous |
| | | Communication Method | Half or full duplex |
| | | Control System | None |
| | | Connector | Detachable 9-pin terminal block |
| Ethernet Interface (LAN) | Interface | IEEE802.3u (10BASE-T/100BASE-TX) compliant | |
| | Connector | Connector (RJ-45) | |
| USB Interface (USB2) | Interface | USB 2.0 full speed (12 Mbps) | |
| | Connector | USB Type Mini-A connector | |
| USB Interface (USB1) | Interface | USB 2.0 high speed (480 Mbps) | |
| | Connector | USB Type Mini-B connector | |

*RS232C and RS 422/485 can be used simultaneously.

Note: 187,500 bps is available only with SIEMENS SIMATIC S7-300/400 series (MPI port direct connection).

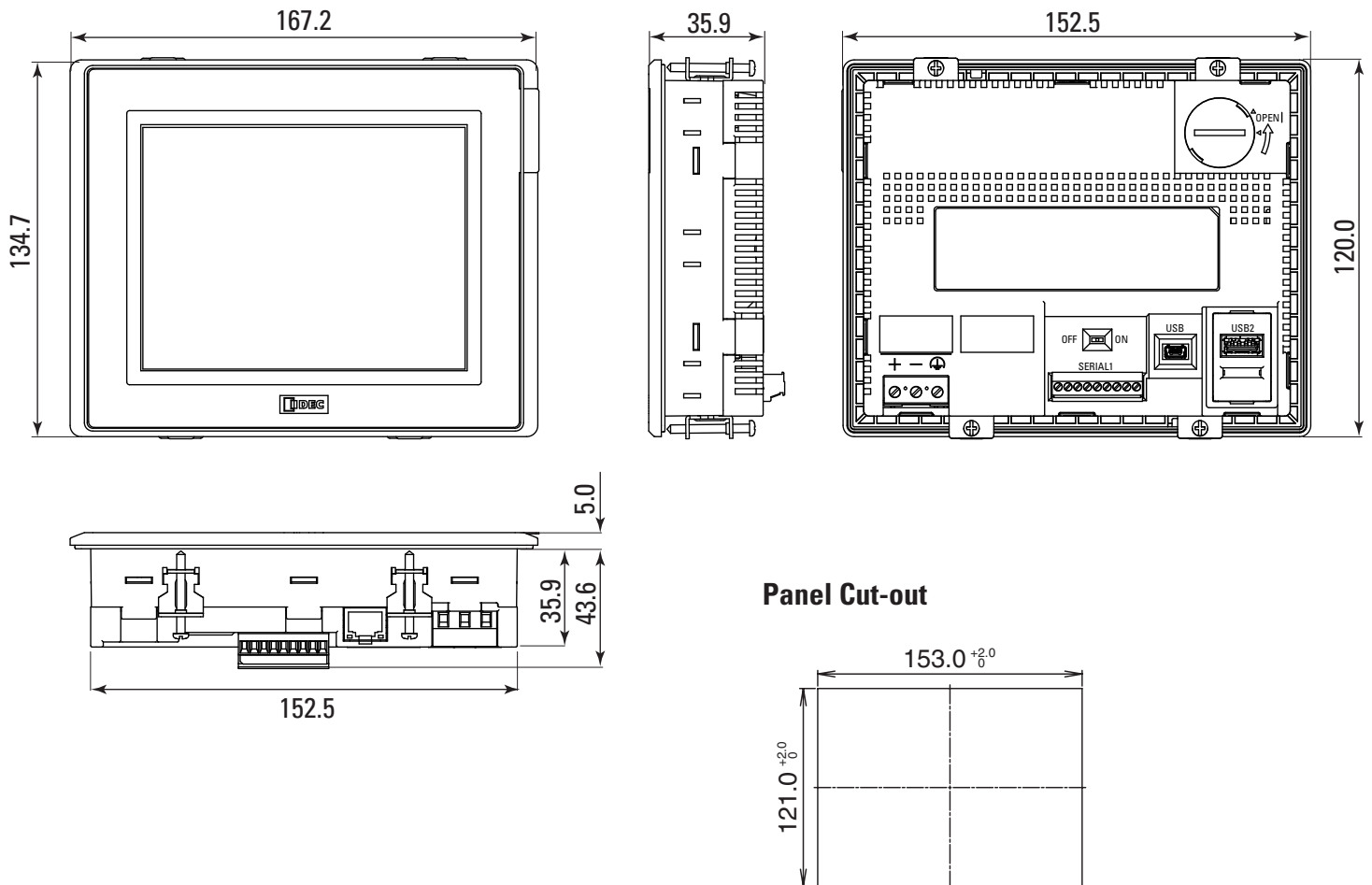
ACCESSORIES

| Accessory | Description | Part Number |
|---------------------|--|-------------|
| Mounting Clip | Replacement clips (1pc.) | SLD-K02 |
| Terminal Plug | Replacement Terminal block for HG2G Host communication port (1pc.) | HG9Z-XT09V |
| Battery | Replacement Lithium Battery (1 pc.) | HG9Z-XR1 |
| USB Cable Lock Pin | To lock the USB cable in place (1 pc.) | HG9Z-XU1 |
| Protective Cover | Covers entire front of HMI (1 pc.) | HG9Z-2E2 |
| Protective Sheet | Sheet lays over LCD area (1 pc.) | HG9Z-2D5 |
| Panel Mount Adaptor | Adaptor for mounting the 5.7" HG2G to the panel cut-out of HG2F (1 pc.) | HG9Z-2A1 |
| | Adaptor for mounting HG2G to 156 x 123.5mm panel cut-out for other mfr.(1 pc.) | HG9Z-2A2 |

The protective sheet is UV resistant, however, resistance against direct sunlight in outdoor usage is not guaranteed.

DIMENSIONS

(All dimensions in mm)



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