HG4F Specifications

General Specifications

Type	Item	Description
Standards	Safety standards	UL508, UL1604, CSA C22.2, No.213, CE
	EMC standards	IEC/EN61131-2, IEC/EN61000-6-4, IEC/EN61000-6-2, CE
Electrical	Rated voltage	24V DC (Suggested power supply - IDEC PS5R Series)
	Voltage variation range	80 to 120% of rated voltage (including ripple)
	Power consumption	25W maximum (at the rated voltage)
	Momentary power interruption	10 msec maximum, level: PS-2
	Inrush current	15A maximum (cold start)
	Dielectric strength	1,500V AC, 10mA for 1 minute (between power terminals and FG)
	Insulation resistance	10MΩ min. (500VDC megger) (between power terminals and FG)
Environmental	Operating temperature range	0-45°C (no freezing)
	Operating humidity range	20-85% RH (no condensation)
	Storage temperature	−20 to 60°C (no freezing)
	Storage humidity	20-85% RH (no condensation)
	Degree of protection	IP66, NEMA 4, 4X, and 13 (front panel)
	Altitude	0-2000m (operation), 0-3000m (transport) - (IEC61131-2)
	Vibration resistance	10 to 55Hz, 9.8 m/s^2 (2 hrs. each in X, Y, & Z axes)
	Shock resistance	147 m/s^2 (5 times in the X, Y, & Z axes)
	Pollution degree	Pollution degree 2 (IEC60664-1)
	Terminal	Power supply terminal: M4 screw. Tightening Torque 1.0 to 1.3 N·m
Structural	Panel cutout dimensions (WxH)	(332mm ±1) x (258mm ± 1)
	Exterior dimensions (WxHxD)	348mm x 270mm x 58mm
	Weight	Approx. 3.4kg

Part Numbers For HG4F

Part Number	Description
HG4F-JT22TFW	HG4F Color 12.1" operator interface
HG4F-JT22TFW-DH485-500	HG4F 12.1" Color TFT OI with Allen Bradley DH-485 for SLC500 PLCs
HG9Y-ZSS2W	WindOI-NV2 Software

HG4F Cables

Part Number	Description
HG9Z-XCM1A	Programming Cable for HG2F/3F/4F series (from PC to HG4F)
HG9Z-3C115A	Cable between IDEC Micro^3/MicroSmart (FC4A-PC2) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C125A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (port 2) PLCs and HG2F/3F/4F, 5 ft.
FC4A-KC2CA	Cable between IDEC MicroSmart (port 1 or 2) and HG2F/3F/4F, 5 ft.
HG9Z-2C145A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (RS485) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C135A	Cable between Mitsubishi A Series or Omron (link) and HG2F/3F/4F, 5 ft.
HG9Z-3C145A	Cable between Mitsubishi A Series (direct or link) and HG2F/3F/4F, 5 ft.
HG9Z-3C155A	Cable between Omron C Series and HG2F/3F/4F, 5 ft.
HG9Z-2C125A	Cable between AB-SLC 503/504 Series and HG2F/3F/4F, 5 ft.
HG9Z-2C135A	Cable between AB-Micrologix Series and HG2F/3F/4F, 5 ft.
HG9Z-2C155A	Cable between Siemens S7-200 Series and HG2F/3F/4F, 5 ft.

HG4F Accessories

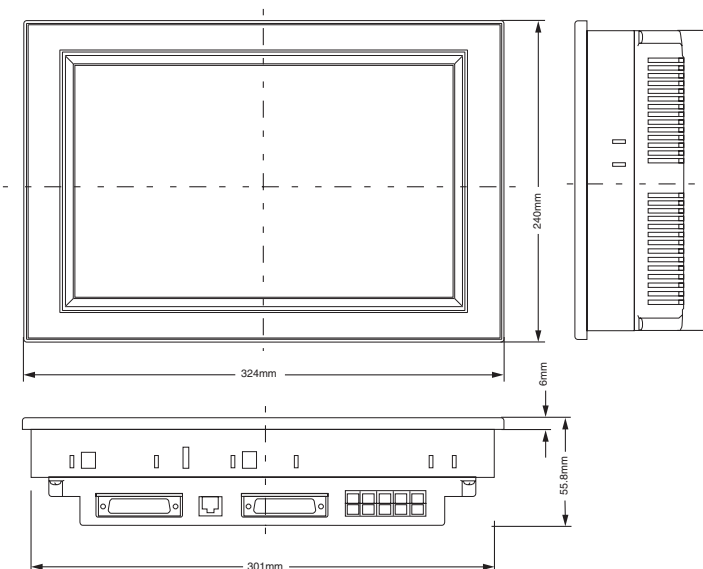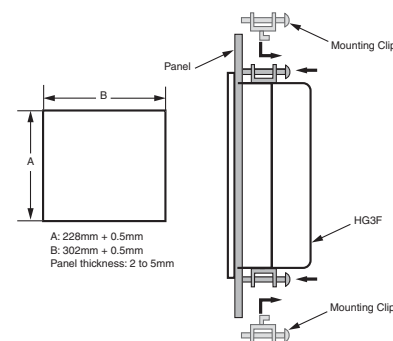| Part Number	Description
HG9Z-4DAPN02	Protective Sheet for HG4F (2 pack)
HG9Z-4K1PN10	Mounting Clip for HG4F (10 pack)
HG9Z-4FB	Replacement Backlight for HG4F
HG9Z-2G1	O/I Communication Link Unit for HG4F
HG9Z-3P102	Digital I/O Expansion Unit for HG4F
HG9Z-MF32	HG3F/HG4F Compact Flash Card (32MB)

HG4F Drivers (included with software)

IDEC • Allen Bradley - DF1, and DH485 • Omron • Mitsubishi • Siemens • Modbus-RTU • Keyence • GE-Fanuc (SNPX)
More drivers available at www.idec.com/usa

A Perfect Ten. The HG3F model has every feature of the HG4F, from Ethernet to Compact Flash to the 256 bright backlit color screen, in a slightly smaller package. With a 10.4-inch viewable LCD screen and 768 touch regions, the HG3F is an excellent tool for any application, especially for smaller space requirements that still need a high-profile display. The built-in library of graphics can integrate with any screen or message, making the visuals stand out even more against the bright screen. Like the HG4F, the HG3F has a field-replaceable backlight and a UL1604 rating for hazardous locations.

HG3F

- 10.4" TFT LCD touch screen with 768 touch regions
- 256 colors with 640x320 pixel resolution
- 8 MB of memory, Compact Flash support
- RS-232, RS-485 and RS-422 compatibility
- Built-in 10BaseT Ethernet port and a parallel port
- UL1604 for hazardous locations; NEMA 4, 4X, 13 and IP66 protection
- UL/c-UL Listed, CE marked
- Alarm, Trend and Recipe support
- Pass through communications
- Built-in real time clock, replaceable back light

Panel
Mounting Clip

B
A

HG3F

A: 228mm + 0.5mm
B: 302mm + 0.5mm
Panel thickness: 2 to 5mm

Mounting Clip

240mm
227mm
324mm
6mm
55.8mm
301mm

HG3F Specifications

General Specifications

Type	Item	Description
Standards	Safety standards	UL508, UL1604, CSA C22.2, No.213, CE
	EMC standards	IEC/EN61131-2, IEC/EN61000-6-4, IEC/EN61000-6-2, CE
Electrical	Rated voltage	24V DC (Suggested power supply - IDEC PS5R Series)
	Voltage variation range	80 to 120% of rated voltage (including ripple)
	Power consumption	25W maximum
	Momentary power interruption	10 msec maximum, Level: PS-2
	Inrush current	15A maximum (cold start)
	Dielectric strength	1,500V AC, 10mA for 1 minute (between power terminals and FG)
	Insulation resistance	10MΩ min. (500VDC megger) (between power terminals and FG)
Environmental	Operating temperature range	0-50°C (no freezing)
	Operating humidity range	20-85% RH (no condensation)
	Storage temperature	−20 to 60°C (no freezing)
	Storage humidity	20-85% RH (no condensation)
	Degree of protection	IP66, NEMA 4, 4X, and 13 (front panel)
	Altitude	0-2000m (operation), 0-3000m (transport) - (IEC61131-2)
	Vibration resistance	10 to 55Hz, 9.8 m/s^2 (2 hrs. each in X, Y, & Z axes) (IEC60068-2-6)
	Shock resistance	147 m/s^2 (5 times in the X, Y, & Z axes) (IEC60068-2-27)
	Pollution degree	Pollution degree 2 (IEC60664-1)
	Terminal	Power supply terminal: M4 screw. Tightening Torque 1 to 1.3 N·m
Structural	Panel cutout dimensions (WxH)	(302mm + 0.5) x (228mm + 0.5)
	Exterior dimensions (WxHxD)	324mm x 240mm x 55.8mm
	Weight	Approx. 2.8kg

Part Numbers For HG3F

Part Number	Description
HG3F-FT22TFW	HG3F Color 10.4" operator interface
HG3F-FT22TFW-DH485-500	HG3F 10.4" Color TFT OI with Allen Bradley DH-485 for SLC500 PLCs
HG9Y-ZSS2W	WindO/I-NV2 Software

HG3F Cables

Part Number	Description
HG9Z-XCM1A	Programming Cable for HG2F/3F/4F series (from PC to HG3F)
HG9Z-3C115A	Cable between IDEC Micro^3/MicroSmart (FC4A-PC2) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C125A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (port 2) PLCs and HG2F/3F/4F, 5 ft.
FC4A-KC2CA	Cable between IDEC MicroSmart (port 1 or 2) and HG2F/3F/4F, 5 ft.
HG9Z-2C145A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (RS485) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C135A	Cable between Mitsubishi A Series or Omron (link) and HG2F/3F/4F, 5 ft.
HG9Z-3C145A	Cable between Mitsubishi A Series (direct or link) and HG2F/3F/4F, 5 ft.
HG9Z-3C155A	Cable between Omron C Series and HG2F/3F/4F, 5 ft.
HG9Z-2C125A	Cable between AB-SLC 503/504 Series and HG2F/3F/4F, 5 ft.
HG9Z-2C135A	Cable between AB-Micrologix Series and HG2F/3F/4F, 5 ft.
HG9Z-2C155A	Cable between Siemens S7-200 Series and HG2F/3F/4F, 5 ft.

HG3F Accessories

Part Number	Description
HG9Z-3DAPN02	Protective Sheet for HG3F (2 pack)
HG9Z-4K1PN10	Mounting Clip for HG3F (10 pack)
HG9Z-3FB	Replacement Backlight for HG3F
HG9Z-2G1	O/I Communication Link Unit for HG3F
HG9Z-3P102	Digital I/O Expansion Unit for HG3F
HG9Z-MF32	HG3F/HG4F Compact Flash Card (32MB)

HG3F Drivers (included with software)

IDEC • Allen Bradley - DF1, and DH485 • Omron • Mitsubishi • Siemens • Modbus-RTU • Keyence • GE-Fanuc (SNPX)
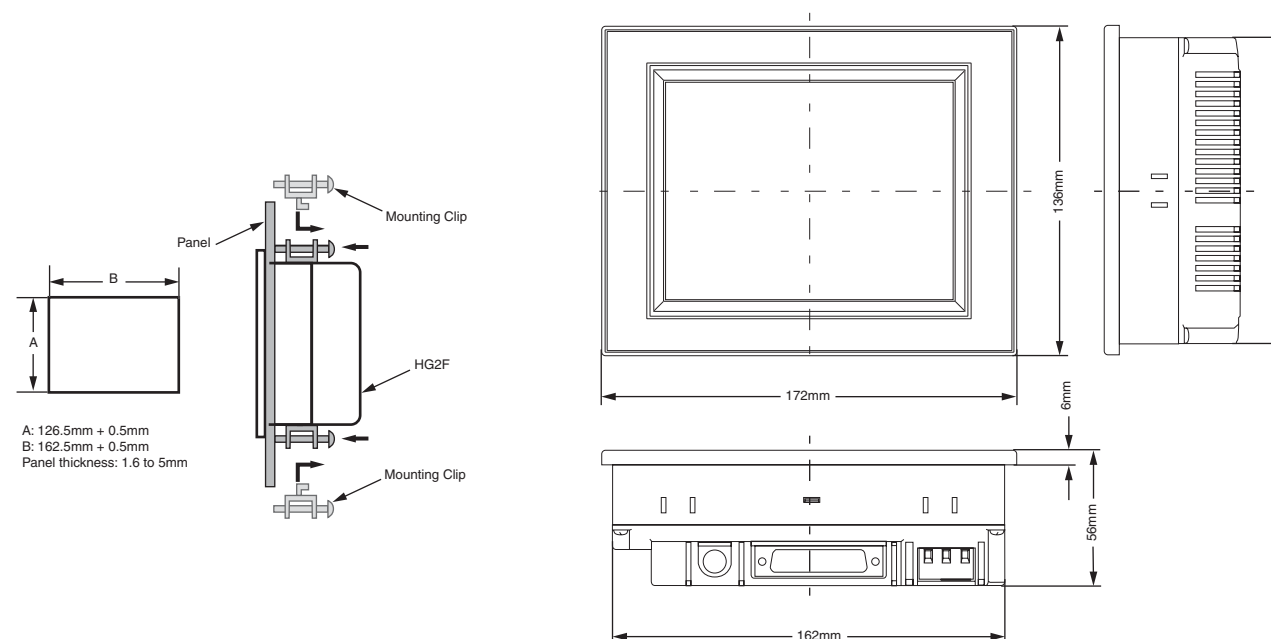
More drivers available at www.idec.com/usa

Faster. Brighter. Slimmer.

The HG2F is a 256-color, full-function touch-screen with an amazing 192 touch regions and a replaceable backlight, all put together in a slim and sleek housing. Complete user configuration is easy using our Wind-OI/NV 2 software and the internal library of bitmap images. There are four available models, with a monochrome or 256-color screen, each compact and lightweight with the same great features. The HG2F-C models also come with IDEC's patented CC CLICK™ technology, providing unique tactile feedback (for more about CC CLICK™, see page 19).

HG2F

- 5.7" STN LCD touch screen with 192 touch regions
- Available in 256 color or monochrome; 320x240 pixel resolution
- RS-232, RS-485 and RS-422 compatibility, pass through communications
- UL1604 for hazardous locations; IP65 protection
- UL/c-UL Listed, CE marked
- Alarm, Trend and Recipe support
- Built-in real time clock, replaceable back light

A: 126.5mm + 0.5mm
B: 162.5mm + 0.5mm
Panel thickness: 1.6 to 5mm

Panel

Mounting Clip

HG2F

Mounting Clip

138mm

172mm

126mm

6mm

56mm

162mm

HG2F Specifications

General Specifications

Type	Item	Description
Standards	Safety standards	UL508, UL1604, CSA C22.2 No. 1010.1, No.213, IEC/EN61131, CE
	EMC standards	EN50081-2, IEC/EN61131-2, IEC/EN61000-6-2, CE
Electrical	Rated voltage	24V DC (Suggested power supply - IDEC PS5R Series)
	Voltage variation range	85 to 120% of rated voltage (including ripple)
	Power consumption	10W maximum (at the rated voltage)
	Momentary power interruption	10 msec maximum, Level: PS-2
	Inrush current	20A maximum
	Dielectric strength	1,000V AC, 10mA for 1 minute (between power terminals and FG)
	Insulation resistance	50MΩ min. (500VDC megger) (between power terminals and FG)
Environmental	Operating temperature range	0-50°C (no freezing)
	Operating humidity range	30-85% RH (no condensation)
	Storage temperature	−20 to 60°C (no freezing)
	Storage humidity	30-85% RH (no condensation)
	Degree of protection	IP65
	Altitude	0-2000m (operation), 0-3000m (transport) (IEC61131-2)
	Vibration resistance	10 to 55Hz, 9.8 m/s^2 (2 hrs. each in X, Y, & Z axes: IEC60068-2-6)
	Shock resistance	147 m/s^2 (5 times in the X, Y, & Z axes: IEC60062-2-27)
	Pollution degree	Pollution degree 2 (IEC60664-1)
	Terminal	Power supply terminal: M3 screw. Tightening Torque 0.5 to 0.6 N·m
Structural	Panel cutout dimensions (WxH)	(162.5mm + 0.5) x (126.5mm + 0.5)
	Exterior dimensions (WxHxD)	6.77" (172mm) x 5.35" (136mm) x 2.2" (56mm)
	Weight	Approx. 800g

Part Numbers For HG2F

Part Number	Description
HG2F-SS22VF	HG2F 5.7" Color OI
HG2F-SB22VF	HG2F 5.7" Monochrome OI
HG2F-SS52VF	HG2F Color OI with CC-Switch
HG2F-SB52VF	HG2F Monochrome OI with CC-Switch
HG2F-SS22VF-DH485-500	HG2F 5.7" Color OI with Allen Bradley DH-485 for SLC500 PLCs
HG2F-SB22VF-DH485-500	HG4F 5.7" MONOCHROME OI with Allen Bradley DH-485 for SLC500 PLCs
HG9Y-ZSS2W	WindO/I-NV2 Software

HG2F Cables

Part Number	Description
HG9Z-XCM1A	Programming Cable for HG2F/3F/4F series (from PC to HG3F)
HG9Z-3C115A	Cable between IDEC Micro^3/MicroSmart (FC4A-PC2) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C125A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (port 2) PLCs and HG2F/3F/4F, 5 ft.
FC4A-KC2CA	Cable between IDEC MicroSmart (port 1 or 2) and HG2F/3F/4F, 5 ft.
HG9Z-2C145A	Cable between IDEC Micro^{3}C/ONC/MicroSmart (RS485) PLCs and HG2F/3F/4F, 5 ft.
HG9Z-3C135A	Cable between Mitsubishi A Series or Omron (link) and HG2F/3F/4F, 5 ft.
HG9Z-3C145A	Cable between Mitsubishi A Series (direct or link) and HG2F/3F/4F, 5 ft.
HG9Z-3C155A	Cable between Omron C Series and HG2F/3F/4F, 5 ft.
HG9Z-2C125A	Cable between AB-SLC 503/504 Series and HG2F/3F/4F, 5 ft.
HG9Z-2C135A	Cable between AB-Micrologix Series and HG2F/3F/4F, 5 ft.
HG9Z-2C155A	Cable between Siemens S7-200 Series and HG2F/3F/4F, 5 ft.

HG2F Accessories

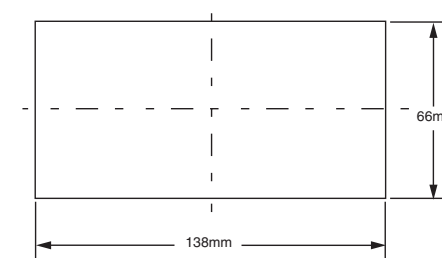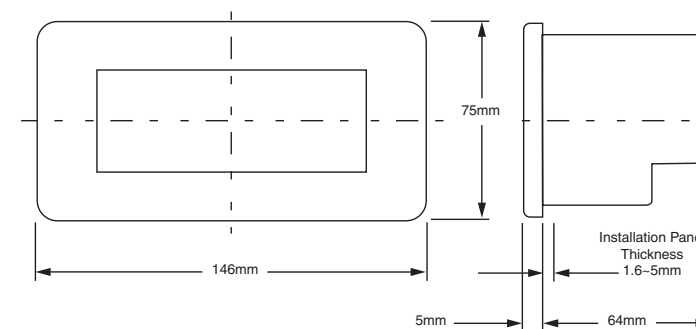| Part Number	Description
HG9Z-2D2	Protective Sheet for HG2F (5 pack)
HG9Z-2K1	Mounting Clip for HG2F (1 per pack)
HG9Z-2B1	Replacement Backlight for HG2F
HG9Z-2G1	O/I Communication Link Unit for HG2F
HG9Z-2P101	Digital I/O Expansion Unit for HG2F

HG2F Drivers (included with software)

IDEC • Allen Bradley - DF1, and DH485 • Omron • Mitsubishi • Siemens • Modbus-RTU • Keyence • GE-Fanuc (SNPX)

More drivers available at www.idec.com/usa

Just Right. Good things come in small packages, like the HG1B operator interface. The full-touch monochrome LCD screen has 48 distinct touch regions with a response time of 300 msec. Not only does it have bitmap and graphic display capabilities or bar graph indicators, you can choose from a library of images and graphics to create the perfect screens. To help you communicate with operators, the HG1B has an internal buzzer and the screen can be configured to flash at different rates depending on the severity of the alarm. The HG1B can link to PLCs or other machines through RS232 or RS485 ports, both built-in, and drivers are also available for non-IDEC PLCs.

HG1B

- Compact housing — 5.7" x 3" x 2.8"
- 127KB memory, configure up to 100 pages
- Internal buzzer capable of up to 32 alarms
- Built-in communication ports (RS232, RS485 and RS422)
- Bar graph indicators
- Programmable with Wind-OI/NV2 (see page 18)

75mm

146mm

Installation Panel
Thickness
1.6–5mm

5mm

64mm

66mm

138mm

HG1B Specifications

General Specifications

Type	Item	Description
Standards	Safety standards	UL508, CSA C22.2 No.142, IEC/EN61131, CE
	EMC standards	EN50081-2, IEC/EN61131-2
Electrical	Rated voltage	24V DC ripple factor: 10% maximum (Suggested power supply - IDEC PS5R Series)
	Voltage variation range	85 to 120% of rated voltage
	Power consumption	10W maximum
	Momentary power interruption	10 ms maximum
	Inrush current	10A maximum
	Dielectric strength	1500V AC, 10ms,1 hour (between power or I/O terminal and ground)
	Insulation resistance	50MΩ min. (500V DC megger) between power or I/O terminal and ground
Environmental	Operating temperature range	0-55°C (operation)
		0-50°C (display contrast)
	Operating humidity range	10-90% relative humidity (avoid condensation)
	Degree of protection	IP65
	Storage temperature	−20 to 70°C
	Storage humidity	5-90% relative humidity (avoid condensation)
	Vibration resistance	10 to 55Hz, 10 m/s^2 (2 hrs. each in X, Y, & Z axes)
	Noise resistance	IEC1000-4-4 compliant
		Between power terminal and ground: 1k V p-p, 1μs, 1ns (with noise simulator)
	Static electricity resistance	IEC 61000-4-2 compliant, 6kV (using a static electricity simulator)
	Operating atmosphere	No corrosive gasses
Structural	Installation	Panel mount
	Panel cutout dimensions (WxH)	138mm x 68mm
	Exterior dimensions (WxHxD)	146mm x 75mm x 70mm
	Weight	Approx. 450g

Part Numbers For HG1B

Part Number	Description
HG1B-SB22WF	RS-232C Host/RS-485 Host
HG1B-SB22JF	RS422 Host
HG9Y-ZSS2W	WindOI-NV2 Software

HG1B Cables

Part Number	Description
HG9Z-XCM1A or FC2A-KC4C	Programming cable for HG1B series (PC to operator interface)
HG9Z-XC12A	Cable between HG1B series (RS232) and FA series IDEC PLC
HG9Z-XC19A	Cable between HG1B series (RS485) and IDEC Micro^3 PLC
HG9Z-XC11A or HG9Z-XC14A	Cable between HG1B series (RS232) and IDEC Micro^3 PLC (FC2A-KC2 cable is required)
HG9Z-XC183	Cable between HG1B series (RS232) and IDEC Micro^{3}C/ONC/MicroSmart (port2) PLCs
HG9Z-XC100	Cable between HG1B series (RS232) and AB-SLC 503/504 PLC
FC4A-KC1CA	Cable between HG1B series (RS232) and IDEC MicroSmart (port1 and port2)
HG9Z-XC300	Cable between HG1B series (RS232) and Aromat FP0 PLC
HG9Z-XC400	Cable between HG1B series (RS232) and Koyo DL240 PLC
HG9Z-XC500	Cable between HG1B series (RS232) and AB-Micrologix PLCs
HG9Z-XC305	Cable between HG1B series (RS232) and Mitsubishi FX2N

HG1B Divers (included with software)

IDEC • Allen Bradley - DF1 • Omron • Mitsubishi • Modicon • Aromat • Siemens • PLC Direct • Keyence
More drivers available at www.idec.com/usa