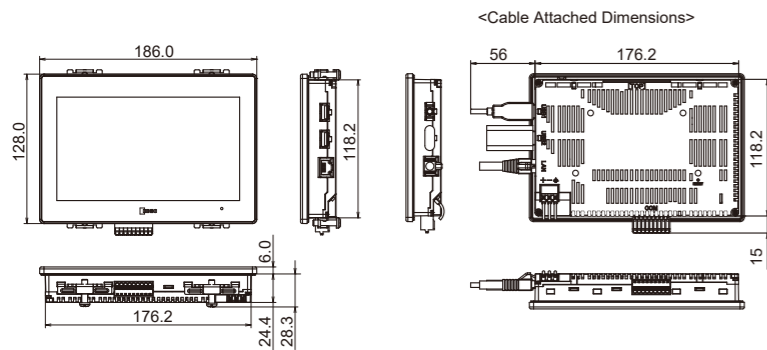


6 Dimensions

HG2J-7U (7.0 inch)

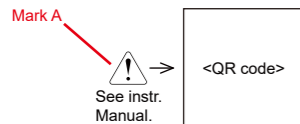
All dimensions in mm.



Depending on the type of connection cable used the dimensions shown above will change. The dimensions given here are representative values and are intended for reference only.

About the printed contents of the main unit

"Mark A" indicates that you can refer to this instruction sheet by using the QR code. For details, "8. Wiring" section.



7 Installation

7.1 Operating Environment

For designed performance and safety of the HG2J-7U, do not install the HG2J-7U in the following environments:

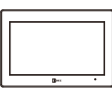


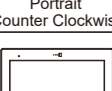

- Where dust, briny air, or iron particles exist.
- Where oil or chemical splashes for a long time.
- Where space is filled with oil mist.
- Where direct sunlight falls on the HG2J-7U.
- Where strong ultraviolet rays fall on the HG2J-7U.
- Where corrosive or combustible gasses exist.
- Where shocks or vibrations are transmitted.
- Where condensation occurs due to rapid temperature change.
- Where high-voltage or arc-generating equipment (electromagnetic contactors or circuit protectors) exists in the vicinity.

7.2 Ambient Temperature

- Allow sufficient space for ventilation, and install the equipment away from heat sources.
- Allow at least 100mm between the HG2J-7U and walls or other equipment.
- Do not install the HG2J-7U where the ambient temperature exceeds the rated operating ambient temperature range. When mounting the HG2J-7U in such locations, provide a forced air-cooling fan or air-conditioner to keep the ambient temperature within the rated temperature range.

7.3 HG2J-7U Orientation

The HG2J-7U is designed to install on a vertical landscape. The operating ambient temperature and the output current of the USB interface (total of USB1 and USB2) are limited as shown in the table below.

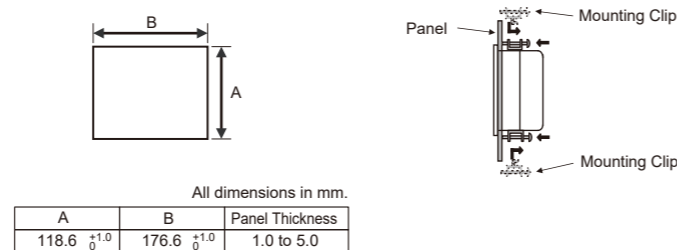
Orientation	Operating Temperature: Output current
 Landscape	-20 to +45°C: 1,000mA +45 to +55°C: 500mA +55 to +60°C: 150mA
 Portrait (Clockwise)	-20 to +40°C: 1,000mA +40 to +55°C: 500mA +55 to +60°C: 150mA
 Portrait (Counter Clockwise)	-20 to +40°C: 1,000mA +40 to +55°C: 500mA +55 to +60°C: 150mA
 Landscape (Rotate 180°)	-20 to +55°C: 500mA +55 to +60°C: 150mA
 Horizontal	-20 to +40°C: 1,000mA +40 to +55°C: 500mA +55 to +60°C: 150mA

<Note>

- When installing the HG2J-7U in a diagonal, the limitations are same as a horizontal.
- Confirm the visibility of the display in a final installation.

7.4 HG2J-7U Installation

- Make a panel cut-out on the panel with the dimensions shown below.



- Place the HG2J-7U in a panel cut-out and fasten with the attached mounting clips at the four places to a specified torque of 0,5 to 0,6N-m uniformly.

CAUTION

- Mount the HG2J-7U on a rigid panel.
- Do not tighten with excessive force, otherwise the HG2J-7U may warp on the display, or impair the waterproof characteristics.
- If the mounting clips are tightened obliquely to the panel, the HG2J-7U may fall off the panel.
- When installing the HG2J-7U into a panel cut-out, make sure that the gasket is not twisted. Especially when re-installing, take special care because any twists in the gasket will impair the waterproof characteristics.

8 Wiring

CAUTION

- Turn off the power supply before wiring.
- Make the wiring as short as possible and run all wires as far away as possible from high-voltage and large-current cables. Follow all the procedures and precautions when wiring the HG2J-7U.
- Separate the HG2J-7U power supply wiring from the power lines of I/O devices and motor equipment.
- Ground the functional earth terminal to make sure of correct operation.
- Use the SELV (Safety Extra-Low Voltage) circuit and LIM (Limited Energy) circuit for power supply.
- Use wire copper conductor only.

8.1 Power Supply Terminal

- Pin assignment is shown in the following table.

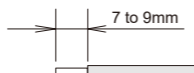


+	Power supply 12V DC / 24V DC
-	Power supply 0V
⏚	Functional Earth (FE)

- Use applicable cables for wiring and recommended ferrules (made by IDEC, Weidmüller or Phoenix Contact) as follows.

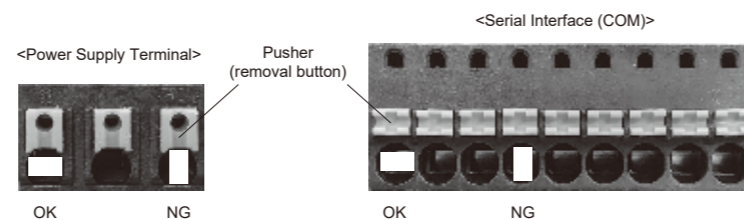
Applicable Cable	AWG 14 to AWG 28
Conductor type	Solid or stranded wire
Wire Strip Length*1	7 to 9mm
Recommended ferrule	ST3L-H025-12WJ, S3TL-H034-12WT, S3TL-H05-14WA, S3TL-H075-14WW (IDEC) H0,25/12 HBL, H0,34/12 TK, H0,5/14 OR, H0,75/14 W (Weidmüller) AI 0,25-8YE, AI 0,34-8TQ, AI 0,5-8WH, AI 0,75-8GY (Phoenix Contact)

*1 Strip the sheath of the wire 7 to 9mm from the end.



8.2 Precautions when inserting and removing wires

- When connecting a stranded wire, insert the wire fully in the wiring port. Wire is connected when the pusher is released.
- When connecting a wire with ferrules, connect to the terminal block so that the ferrule longer direction faces sideways. (Refer to the below diagram.)



- When disconnecting a wire, use a flat blade screwdriver or similar tool and press the pusher (removal button) with approximately 20 N of force while pulling the wire straight out.
- Be careful not to damage the push-in terminal. Do not apply 40 N or more of force when pressing the pusher. Do not pull out the cable without pressing the pusher.

8.3 Recommended Tools

The following recommended tools can be used.

Tool Name	Model Number (Order Number)	Manufacture Name
Flat blade screwdriver	Normal type	SDS 0.4×2.5×75 (2749320000) Weidmüller
	With insulated cover	S3TL-D04-25-75 SDIS 0.4×2.5×75 (2749790000) Weidmüller
Crimping tool		S3TL-CR06D IDEC
		PZ6/5 (90011460000) Weidmüller
Stripping tool		S3TL-ST06 IDEC
		STRIPAX (9005000000) Weidmüller

8.4 Cautions for using the HG2J-7U connected to a personal computer

When connecting the HG2J-7U to a personal computer via the USB interfaces, the HG2J-7U or the personal computer may break down depending on the conditions of the personal computer. Make sure of the following cautions, in order to prevent an accident.

- If the personal computer has a 3-pin power plug or power plug with a ground lead type, make sure to use a plug socket including a ground input electrode or ground the earth lead, respectively.
- If the personal computer has a 2-pin power plug without ground lead, follow the procedure below when connect the HG2J-7U to the personal computer.
 - (1) Pull out the power plug of the personal computer from the AC outlet.
 - (2) Connect the HG2J-7U to the personal computer.
 - (3) Insert the power plug of the personal computer into the AC outlet.

9 Maintenance and Inspection

Maintain and inspect the HG2J-7U periodically to ensure the best performance. Do not disassemble, repair, or modify the HG2J-7U during inspection.

Display	Wipe any stain of the display using a soft cloth slightly dampened with neutral detergent or alcoholic solvent. Do not use solvents such as thinner, ammonia, strong acid, and strong alkaline.
Terminals, Connectors	Check the terminals and connectors to make sure of no incomplete insertion, or disconnected lines.
Mounting Clips	Make sure that all mounting clips and screws are tightened sufficiently. If the mounting clips are loose, tighten the screw to the recommended tightening torque.
Backlight	The HG2J-7U's backlight cannot be replaced by the customer. When the backlight needs to be replaced, Contact IDEC.

IDEC CORPORATION

<http://www.idec.com>

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 UK Authorized Representative: APEM COMPONENTS LIMITED
 Drakes Drive, Long Crendon, Buckinghamshire, HP18 9BA, UK