MITSUBISHI ELECTRIC

GOT2000/GOT1000 Series Printer Unit
User's Manual

GT15-PRN

Thank you for choosing Mitsubishi Electric Graphic Operation Terminal (GOT).

Prior to use, please read both this manual and detailed manual thoroughly to fully understand the product.

MODEL	GT15-PRN-U
MODEL CODE	1D7M47
IB(NA)-0800334-P(2307)MEE	

●SAFETY PRECAUTIONS●
(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.
The precautions given in this manual are concerned with this product.
In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

⚠WARNING	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the ⚠ CAUTION level may lead to a serious accident according to the circumstances.
Always follow the precautions of both levels because they are important to personal safety.
Please save this manual to make it accessible when required and always forward it to the end user.

[DESIGN PRECAUTIONS]

⚠ CAUTION

- Do not bundle the control and communication cables with main-circuit, power or other wiring.
  Run the above cables separately from such wiring and keep them a minimum of 100mm apart.
  Not doing so noise can cause a malfunction.

[MOUNTING PRECAUTIONS]

⚠WARNING

- Be sure to shut off all phases of the external power supply used by the system before mounting or removing this unit to/from the GOT.
  Not doing so can cause a unit failure or malfunction.
- Before connecting the Bus connection cable to this unit, always shut off GOT power and PLC CPU power externally in all phases.
  Not doing so can cause a malfunction.

⚠ CAUTION

- Use this unit in the environment that satisfies the general specifications described in the User's Manual for the GOT used.
  Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.
- When installing this unit to the GOT, fit it to the connection interface of the GOT and tighten the mounting screws in the specified torque range (0.36N·m to 0.48N·m) with a Phillips-head screwdriver No. 2.
  Undertightening can cause a drop, failure or malfunction.
  Overtightening can cause a drop, failure or malfunction due to screw or unit damage.

[WIRING PRECAUTIONS]

⚠WARNING

- Be sure to shut off all phases of the external power supply used by the system before wiring.
  Failure to do so may result in an electric shock, product damage or malfunctions.

⚠ CAUTION

- Exercise care to avoid foreign matter such as chips and wire offcuts entering the unit.
  Not doing so can cause a fire, failure or malfunction.
- Make sure to securely connect the cable to the connector of unit.
  Incorrect connection may cause malfunctions.

[STARTUP AND MAINTENANCE PRECAUTIONS]

⚠WARNING

- Before starting cleaning or mounting screw retightening, always shut off GOT power externally in all phases.
  Not doing so can cause a unit failure or malfunction.
  Tighten the mounting screws in the specified torquerange (0.36N·m to 0.48N·m) with a Phillips-head screwdriver No. 2.
  Undertightening can cause the GOT to drop, short circuit or malfunction.
  Overtightening can cause a drop, short circuit or malfunction due to the damage of the screws or unit.

⚠ CAUTION

- Do not disassemble or modify the unit.
  Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of this unit directly.
  Doing so can cause a unit malfunction or failure.
- The cables connected to the unit must be run in ducts or clamped.
  Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidentalpulling of the cables or can cause a malfunction due to a cable connection fault.
- When unplugging the cable connected to the unit, do not hold and pull from the cable portion.
  Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cableconnection fault.
- Do not drop the module or subject it to strong shock.
  A module damage may result.
- Before touching the unit, always touch grounded metals, etc. to discharge static electricity from human body, etc.
  Not doing so can cause the unit to failure or malfunction.

[DISPOSAL PRECAUTIONS]

⚠ CAUTION

- When disposing of this product, treat it as industrial waste.

[TRANSPORTATION PRECAUTIONS]

⚠ CAUTION

- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of the User's Manual for the GOT used, as they are precision devices.
  Failure to do so may cause the unit to fail.
  Check if the unit operates correctly after transportation.
- When fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine are used for disinfecting and protecting wooden packaging from insects, they cause malfunction when entering our products.
  Please take necessary precautions to ensure that remaining materials from fumigant do not enter our products, or treat packaging with methods other than fumigation (heat method).
  Additionally, disinfect and protect wood from insects before packing products.

Manual

The following shows manuals relevant to this product.

Manual name	Manual number (Model code)
GOT2000 Series User's Manual (Hardware)　　(Sold separately)	SH-081194ENG (1D7MJ5)
GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals)	SH-081200ENG
GT16 User's Manual (Hardware)	SH-080928ENG
GT15 User's Manual	SH-080528ENG
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3	SH-080871ENG

For the latest e-Manuals and PDF manuals, consult your local sales office.

Compliance with the EMC and Low Voltage Directives

To configure a system meeting the requirements of the EMC and Low Voltage Directives when incorporating the Mitsubishi GOT (EMC and Low Voltage Directives compliant) into other machinery or equipment, refer to "EMC AND LOW VOLTAGE DIRECTIVES" of the General Description included with the GOT used.
The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the GOT.

Compliance with the new China RoHS directive

GOT 相关的基于 " 电器电子产品有害物质限制使用管理办法 " 要求的表示方法

Note: This symbol mark is for China only.

含有有害 6 物质的名称、含有量、含有部件
本产品中所含有的有害 6 物质的名称、含有量、含有部件如下表所示。
产品有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件	×	○	○	○	○	○
树脂壳体、电缆、膜材	○	○	○	○	○	○
钣金部件、螺丝等金属部件	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。
○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T26572 规定的限量要求以下。
×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 规定的限量要求。

Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)

Packing List
The following items are included.

Model	Product	Quantity
GT15-PRN	Printer unit	1
	Mounting screw set (2 pieces of screw, 2 pieces of sticker)	1
	Cable clamp set (Connector holder with screw, cable clamp)	1
	GOT2000/GOT1000 Series Printer Unit User's Manual (This manual)	1
GT09-C30USB-5P	Dedicated printer connection cable (3m)	1

1. OVERVIEW

This user's manual describes the GOT2000/GOT1000 series printer unit (hereinafter referred to as the printer unit).
With the printer unit installed, the GOT can be connected to a printer.
Refer to the User's Manual for the GOT used for the applicable GOT.
Use PictBridge compatible printers.
Printers incompatible with PictBridge cannot be used with the GOT.

2. SPECIFICATIONS

The performance specifications of the printer unit are indicated below.
The general specifications of the printer unit are the same as those of the GOT.
Refer to the User's Manual for the GOT used for the general specifications of the GOT.

Item	Specification
Internal current consumption (5VDC)	0.09A
Weight	0.08kg (0.18lb) (Including connector holder and cable clamp)

3. PART NAMES AND EXTERNAL DIMENSIONS
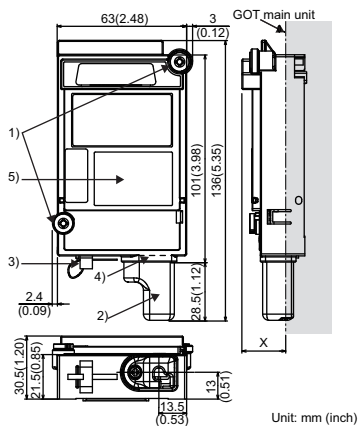
Unit: mm (inch)

* The external dimensions of printer unit with a cable clamp and connector holder attached is shown above.

Dimensions of X when the printer unit is mounted to the GOT

GOT	GT27	GT25	GT16	GT15
15"	23 (0.91)	-	19.5 (0.77)	21 (0.83)
12.1"	23 (0.91)	23 (0.91)	18 (0.71)	18 (0.71)
10.4"	23 (0.91)	23 (0.91)	21 (0.83)	21 (0.83)
8.4"	23 (0.91)	23 (0.91)	23 (0.91)	23 (0.91)
5.7"	23 (0.91)	-	23 (0.91)	23 (0.91)

Unit: mm(inch)

No.	Name	Description
1)	Mounting screw	Mounting screws fixed with the front communication unit or GOT
2)	Connector holder	Holder for preventing a dedicated printer connection cable disconnection
3)	Cable clamp	For cable treatment
4)	Connector	USB connector for connecting a dedicated printer connection cable
5)	Rating plate	-

## 4. INSTALLATION AND REMOVAL PROCEDURE

4.1 Cable Connection

(1) Connect a dedicated printer connection cable to the printer unit.
(2) Attach the accessory connector holder to the dedicated printer connection cable and tighten the screw of connector holder with tightening torque of 0.36N·m to 0.48N·m.
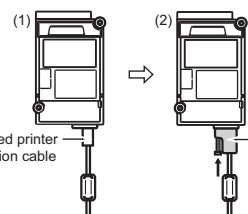
(3) Depending on the use environment such as when fastening cable is difficult, attach a cable clamp to the printer unit.
Attach the cable clamp to the printer unit.
Position the cable clamp band outside, and insert the cable clamp to section A shown in the following figure until it clicks.
For the band inserting direction, refer to the arrow.

(The cable clamp is the RSG-130-V0 of KITAGAWA INDUSTRIES CO.,LTD. or equivalent.)
(4) Insert the dedicated printer connection cable in the looped cable clamp band and pull the band to fasten the cable.

Cable clamp
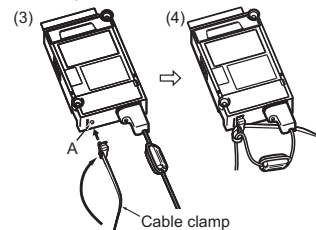
Point

Cable to be used
When connecting the printer to the GOT, use the supplied dedicated printer connection cable (USB cable).
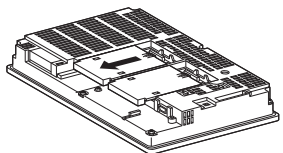Screw of the connector holder
Do not remove the screw attached to the connector holder.
In the case the screw is removed, do not use any other screws.
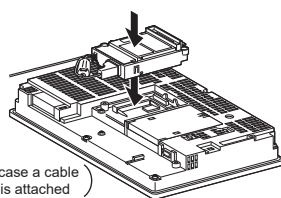Doing so may damage the unit.

4.2 Unit Installation

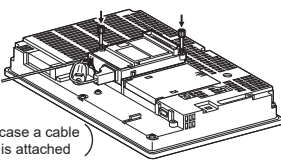The installation procedure for the printer unit is explained using the GT1575.
(1) Power off the GOT.
(2) Remove one extension unit cover of the GOT.


(3) Fit the printer unit in the GOT case.

(In the case a cable clamp is attached)

(4) Fasten the printer unit by tightening its mounting screws (2 places) with tightening torque 0.36N·m to 0.48N·m.

(In the case a cable clamp is attached)

(5) When mounting any communication unit on the outer stage, refer to the User's Manual for the GOT used.
When not mounting any communication unit on the outer layer, stick accessory stickers on the top of mounting screws (2 places) to cover the top of them in order to avoid electrostatic.
Keep the connector cover and sticker (see the following figure) fixed.

Connector cover
Accessory stickers
Sticker
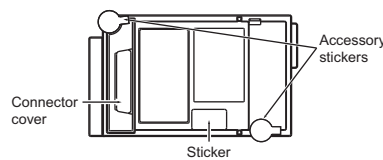
4.3 Unit Removal

For removing the printer unit, reverse the procedure of the installation.

Point

Precautions for connecting the printer
- Any printer cannot be connected to GOT via USB hub.
- Wait 5s or more between the connection and disconnection of the dedicated printer connection cable.
  If connecting or disconnecting the dedicated printer connection cable shortly after disconnecting or connecting the cable, the GOT may not operate normally.
- Do not connect or disconnect the dedicated printer connection cable during printing.
  Doing so can cause the GOT operate incorrectly.
- Connected printer may not be recognized in rare cases.
  When printer is not recognized, disconnect the dedicated printer connection cable once and connect it again.
- When the printer has been connected to a personal computer and used before it is connected to GOT, power on the printer again and connect it to GOT.
- Do not connect any devices to the printer while GOT is connected to it.
- Do not connect any devices other than printer to the printer unit.

Cable clamp

(1) Pulling out the cable clamp band
The cable clamp band can be pulled out after cable treatment.
Pull out the band with pressing the tab of the cable clamp outward using a screwdriver etc.
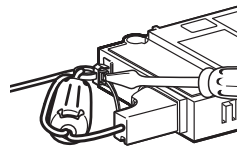
(2) Removing from the printer unit
The dedicated printer connection cable can be removed from the unit with the cable clamp attached.
Remove the cable clamp by pressing it in both directions (arrow A).
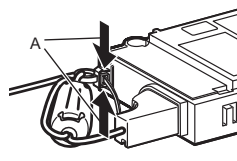
Warranty

Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damages, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric products; and to other duties.

⚠For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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