MITSUBISHI ELECTRIC

GOT2000/GOT1000 Series Sound Output Unit

User's Manual

GT15-SOUT

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-SOUT-U
MODEL CODE	1D7M68
IB(NA)-0800383-M(2307)MEE	

© 2007 MITSUBISHI ELECTRIC CORPORATION

●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.

[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 torque range (0.36N·m to 0.48N·m) with a Phillips-head screwdriver No. 2.
Undertightening can cause a drop 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.

⚠ CAUTION
● 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 (Microcomputer,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。
产品中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、螺栓等金属部件	○	○	○	○	○	○

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 name	Product name	Quantity
GT15-SOUT	Sound output unit	1
	Mounting screw set (2 pieces of screw, 2 pieces of label)	1
	Cable clamp set	1
	GOT2000/GOT1000 Series Sound Output Unit User's Manual (This manual)	1

1. OVERVIEW

This user's manual describes the GOT2000/GOT1000 series sound output unit (hereinafter referred to as the sound output unit).
With installing the sound output unit, the GOT can be connected to a speaker with amplifier (hereinafter referred to as external speaker).
When using the sound output unit, set the Communication Settings. For the setting, refer to the User's Manual for the GOT used.
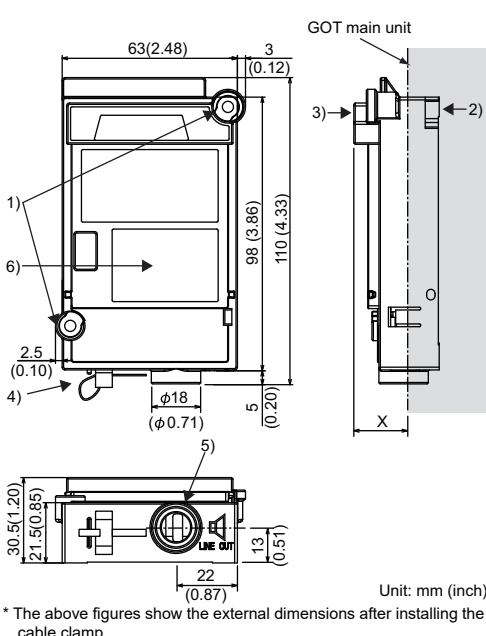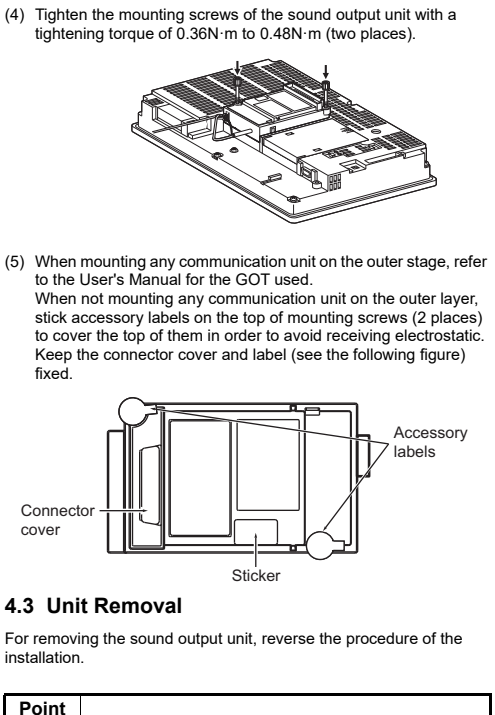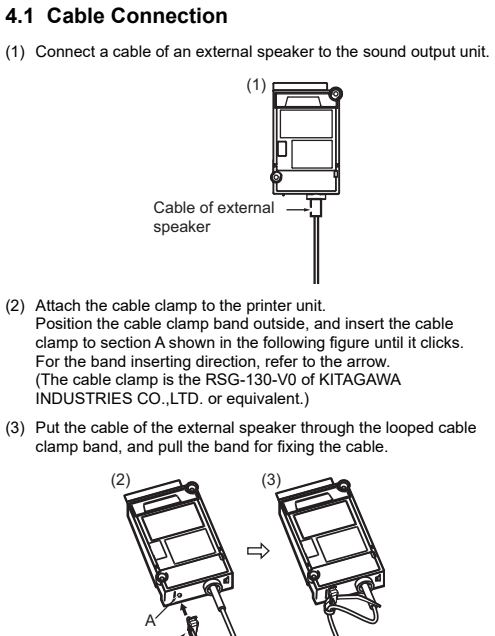
2. SPECIFICATIONS

The performance specifications of the sound output unit are indicated below. The general specifications of the sound output 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 printer unit.

Item	Specification
Sound output terminal	For connecting external L/R speakers, 1 channel for each speaker (2Vp-p, 0.4mW (for rated load 10kΩ)
Applicable jack	φ 3.5 stereo mini jack, straight type
Playable file	GOT1000 Series: Windows WAV format 8.000KHz, 16 bits, mono (8 seconds/sound file) GOT2000 Series: Windows WAV format 16.000KHz/8.000KHz, 16 bits, mono (30 seconds/sound file)
Internal consumed current (DC5V)	0.08A
Weight	0.07kg (0.154lb) (Including cable clamp)

3. PART NAMES AND EXTERNAL DIMENSIONS

Unit: mm (inch)
* The above figures show the external dimensions after installing the cable clamp.

Dimensions of X when 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)	Interface connector	Extension connector installed to a front extension unit or the GOT
3)	Extension connector	Extension connector to which a back extension unit is installed
4)	Cable clamp	For cable treatment
5)	Sound output terminal	Terminal for connecting a cable of external speakers
6)	Rating plate	-

4. INSTALLATION AND REMOVAL PROCEDURE

4.1 Cable Connection

(1) Connect a cable of an external speaker to the sound output unit.

(2) 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.)

(3) Put the cable of the external speaker through the looped cable clamp band, and pull the band for fixing the cable.

4.2 Unit Installation
The installation procedure for the sound output unit is explained using the GT1575.

(1) Power off the GOT.

(2) Remove the one extension unit covers of the GOT.

(3) Fit the sound output unit in the GOT case.

(4) Tighten the mounting screws of the sound output unit with a tightening torque of 0.36N·m to 0.48N·m (two places).

(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 labels on the top of mounting screws (2 places) to cover the top of them in order to avoid receiving electrostatic. Keep the connector cover and label (see the following figure) fixed.

4.3 Unit Removal

For removing the sound output unit, reverse the procedure of the installation.

Point

Precautions for connecting external speaker
• Do not connect or disconnect the cable of the external speaker during sound outputs.
• Do not connect any devices other than external speakers to the sound output 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 driver etc.

(2) Removing from sound output unit
The cable of the external speaker can be removed even though the cable is fixed with the cable clamp.
Remove the cable clamp by pressing it in both directions (arrow A).

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS: 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA 461-8670, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.
Printed in Japan, July 2023.