

he following shows manuals relevant to this pro	duct.
Manual name	Manual number (Model code)
GOT2000 Series User's Manual (Hardware)	SH-081194ENG (1D7MJ5)
GOT2000 Series User's Manual (Utility)	SH-081195ENG (1D7MJ6)
For detailed manuals and relevant manuals, refe	to the e-Manual or P

Compliance with the new China RoHS directive IT 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。 产品中有来物质的名称及今量

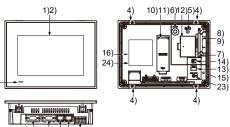
)而于有苦彻烦的石桥及音重							
	有害物质						
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)	
电路板组件	×	0	0	0	0	0	
树脂壳体、电缆、膜材	0	0	0	0	0	0	

本表格依据 SJ/T11364 的规定编制。 〇: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)

Before using the GOT Connect the connector of the GOT to the connector of the battery. Refer to the GOT2000 Series User's Manual (Hardware) for the connection instructions For details on the GOT specifications, installing instructions, wiring, maintenance and inspection, or checking procedure for the version and the compatible standard



22) 21)18)19)17) 20)

No.	Name	Description
1)	Display section	Displays the utility and the user-created screen.
2)	Touch panel	For operating the touch switches in the utility and the user- created screen
3)	POWER LED	Lit in blue : Power is properly supplied. Lit in orange : Screen saving Blinks in orange and blue: Backlight failure Not lit : Power is not supplied.
4)	Unit installation fitting	Mounting fixtures for fixing the GOT to the control panel
5)	Reset switch	Hardware reset switch
6)	S.MODE switch	Used for OS installation at the GOT startup
7)	SD card access LED	ON: SD card installed Blink: SD card accessed OFF: SD card not installed or SD card installed but removal possible
8)	SD card interface (inside the cover)	For installing an SD card
9)	SD card cover	Has the function to switch the access to the SD card between enabled and disabled states. When the cover is opened: Access prohibited When the cover is closed: Access allowed
10)	Battery (inside the cover)	Space for housing the battery
11)	Terminating resistor setting switch (inside the cover)	Switches the terminating resistor for the RS-422/485 communication port between used and unused states (initial setting (unused))
12)	Wireless LAN communication unit interface (inside the cover)	For installing a wireless LAN communication unit

ISB interface (Least) For connecting a USB mouse, a USB keyb

Item			Specific	cations*5		Specifications*5				
Operating ambient temperature*1		-20°C to 65°C								
Storage ambient temperature			-30°C	to 75°C						
Operating ambient humidity		10 te	90% RH,	non-condensi	ng					
Storage ambient humidity		10 te	o 90% RH,	non-condensi	ng					
			Frequency	Acceleration	Half- amplitude	Sweep count				
		Under intermittent vibration Under continuous vibration	5 to 8.4Hz	-	7.0mm	10 times each in				
Vibration resistance	IEC 60068-2-6		8.4 to 150Hz	19.6m/s <sup>2</sup>	-	X, Y and Z direction s				
			5 to 8.4Hz	-	7.0mm					
			8.4 to 150Hz	19.6m/s <sup>2</sup>	-					
Shock resistance	IEC60068-2-27 392 m/s <sup>2</sup> (40G), 3 times each in X, Y or Z directions									
Operating atmosphere		No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)								
Operating altitude*2			2000 ו	m max.						
Installation location	Inside control panel									
Overvoltage category*3	II or less									
Pollution degree*4	2 or less									
Cooling method				ooling						
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm <sup>2</sup> or more. If impossible, connect the ground cable to the control panel.									

# \*2: Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction.

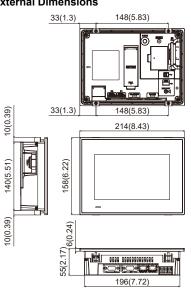
Loing so may cause a maltunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off. \*3: This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities oltage for the equi nt with the rated

### 3.2 Power Supply Specifications The following shows t

supply specifications of the rugged GT25 model

Note			
<ul> <li>If an i than t</li> </ul>	he permissible period, th	ure occurs in the power supply and continues for more le GOT will be reset. it more than 5 seconds after power-off.	
	Item	Specifications GT2507T-WTSD	
Power si	upply voltage	24 V DC (+25%, -20%)	
	maximum load	17W or less	
Power	Stand alone	11W	
ption	Stand alone with backlight off	7W	
Inrush current		59A or less (2 ms, operating ambient temperature 25 °C, maximum load)	
Allowable momentary power failure time		5 ms or less	
Noise immunity		500Vp-p noise voltage, 1µs noise width (when measuring with a noise simulator under 25 to 60Hz noise frequency)	
Dielectric withstand voltage		350 V AC for 1 minute across power terminals and earth	
Insulation resistance		$10 M\Omega$ or more across power terminals and earth by 500 V DC insulation resistance tester	
Applicable wire size		0.75[mm <sup>2</sup> ] to 2[mm <sup>2</sup> ]	
Applicable solderless terminal		Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A	
Applicable tightening torque (Terminal block terminal screw)		0.5[N•m] to 0.8[N•m]	

### 3.3 External Dimensions



cause failure. Check that the SD card access LED is off before removing the SD card **3. SPECIFICATIONS** 

and inspection, or checking procedure for the version and refer to the GOT2000 Series User's Manual (Hardware).

### Packing List

The GOT product package includes the following:

Description	Quantity
Rugged GT25 model	1
Battery (GT11-50BAT) (Attached to the GOT)	1
Fitting	4
GT25 耐環境性強化モデル本体概要説明書 (Japanese version of this manual)	1
Rugged GT25 Model General Description (This manual)	1

## **1. FEATURES**

- Abundant standard equipment
   Variety of connection with FA devices
- Variety of connection with FA devices
   SD card interface compatible with the SDHC card having a large capacity
   and allowing high-speed communication
   Connection with various peripheral devices with the USB host
   One sound output interface
   Two Ethernet interfaces
   Two Ethernet interfaces

- (2) Improved usability
- Abundant troubleshooting

- Adundant troubleshooting
   Easy and clear screen creation
   PC-like operation screen
   Support for the vertical installation
   Enhanced compatibility with Mitsubishi Electric FA devices
   (4) LED backlight
   (5) Further ruggedization

# 2. PARTS NAMES AND SETTINGS

The following shows the parts names of GT2507T-W.

13)	USB interface (Host/ back)	barcode reader, and transferring or saving data (Connector shape: TYPE-A)		
14)	USB interface (Device/ back)	For connecting a personal computer (Connector shape: Mini-B)		
15)	Cable clamp mounting hole	For attaching a cable clamp to prevent the USB cable or the sound output cable from being accidentally pulled out Recommended product: RSG-130-V0 of KITAGAWA NDUSTRIES CO.,LTD. or equivalent)		
16)	Vertical installation arrow mark	For the vertical installation, install the GOT so that the arrow points upward.		
17)	Power terminal	Power input terminal, FG terminal		
18)	Ethernet interface (port 1)	or communicating with a controller or connecting a		
19)	Ethernet interface (port 2)	personal computer (Connector shape: RJ45 (modular jack)		
20)	Ethernet communication status LED	SD/RD LED ON: Data sent or received SD/RD LED OFF: Data not sent or received SPEED LED ON: Communicating at 100 Mbps SPEED LED OFF: Communicating at 10 Mbps or disconnected		
21)	RS-422/485 interface	For communication with a controller (Connector shape: D- sub 9-pin (female))		
22)	RS-232 interface	For communication with a controller (Connector shape: D- sub 9-pin (male))		
23)	Sound output interface	For outputting sounds (applicable plug: Φ3.5 stereo mini- plug (3-prong))		
24)	Rating plate			

- is 2500 V
- V is 2500 V.
  \*4: This indicates the occurrence rate of conductive material in an environment
  where a device is used. Pollution degree 2 indicates an environment where only
  non-conductive pollution occurs normally and a temporary conductivity caused
  by condensation shall be expected depending on the conditions.
  \*5: Communication units and options usable with the rugged model can be used in
  the environment described in the general specifications of the rugged model.
  Note that when a protective cover for oil is mounted on the GOT, the operating
  ambient temperature must be -20°C to 50°C.
  For using peripheral devices to be connected to the GOT, refer to the manual of
  each product.

Refer to the GOT2000 Series User's Manual (Hardware) for details on the performance pecifications of each GOT.



### 4. EMC AND LOW VOLTAGE DIRECTIVE

For electromagnetic compatibility (EMC) and electrical safety, regulatory standards are established in each country. Especially, for the products to be sold in European countries, conformance to the EMC Directive, which is one of the European Directives, has been mandatory as the EMC standards since 1996. In addition, conformance to the Low Voltage Directive, another European Directive, has also been mandatory as the electrical safety standards since 1997.

since 1997

Directive, has also been mandatory as the electrical safety standards since 1997. In European countries, if a product meets the requirements of the EMC Directive or the Low Voltage Directive, the product's manufacturer must declare conformity of the product and affix the CE mark to the product. In some countries or regions other than European countries, the product's manufacturer also must declare conformity of the product and affix the certain to the product. In some countries or regions other than European countries, the product of the authorized representative in the EU and the UK. • Authorized representative in the EU and the UK is shown below. Name : Mitsubishi Electric Europe BV Address : Mitsubishi Electric Patz 1, 40882 Ratingen, Germany This section describes the EMC Directive and Low Voltage Directive as examples for conformance to EMC and electrical safety standards. For the EMC Directive, regulatory compliance with equivalent EMC Standards are required for example in the UK and Korea. For the Low Voltage Directive, regulatory compliance with equivalent EMC Vatage Directive, regulatory compliance with equivalent as a for the standards are required for example in the UK.

### 4.1 Requirements to Meet EMC Directive

EMC Directives are those which require "any strong electromagnetic force is not output to the external..Emission (electromagnetic wave from the external..Emission (electromagnetic wave from the external..Immunity (electromagnetic sensitivity)". Items 4.1.1 through 4.1.3 summarize the precautions to use GOT and configure the mechanical unit in order to match the EMC directives. Though the data described herein are produced with our best on the basis of the requirement items and standards of the restrictions gathered by Mitsubishi Electric, they do not completely guaranteed that all mechanical unit manufactured according to the data do not always match the above. match the above

### 4.1.1 EMC directive

The standards of the EMC Directive are shown below

Applied standard	Test standard	Test details	Standard value
	CISPR16-2-3 Radiated noise*1*2	Electromagnetic emissions from the product are measured.	30M-230MHz QP: 30dB <sub>μ</sub> V/m (30m in meansurement range)*3*4 230M-1000MHzQP: 37 dB <sub>μ</sub> V/m (30m in measurement range)*3*4
	IEC61000-4-2 Electrostatic immunity <sup>*1*2</sup>	Immunity test in which static electricity is applied to the cabinet of the equipment.	$\pm$ 4kV Contact discharge $\pm$ 8kV Aerial discharge
	IEC61000-4-3 Radiated electromagnetic field AM modulation <sup>*1*2</sup>	Immunity test in which field is irradiated to the product.	80-1000MHz: 10V/m 1.4-2GHz:3V/m 2.0-2.7GHz: 1V/m 80%AM modulation@1kHz
EN61131-2	IEC61000-4-4 Fast transient burst noise*1*2	Immunity test in which burst noise is applied to the power line and signal lines.	Power line: 2kV Digital I/O: 1kV Analog I/O: 1kV Signal lines: 1kV
: 2007	IEC61000-4-5 Surge immunity*1*2	Immunity test in which lightening surge is applied to the product.	Power line (between line and ground): $\pm 0.5 \text{kV}$ Power line (between lines): $\pm 0.5 \text{kV}$ Data communication port: $\pm 1 \text{kV}$
	IEC61000-4-6 Conducted RF immunity <sup>*1*2</sup>	Immunity test in which a noise inducted on the power and signal lines is applied.	Power line: 10V Data communication port: 10V
	IEC61000-4-8 Power supply frequency magnetic field immunity <sup>*1*2</sup>	Test for checking normal operations under the circumstance exposed to the ferromagnetic field noise of the power supply frequency (50/60Hz).	30 A/m

\*1: The GOT is an open type device (device installed to another device) and must be installed in a conductive control panel

The above test items are conducted in the condition where the GOT is installed on the conductive control panel and combined with the Mitsubishi Electric PLC. on the

- \*2: When using the sound output cable, the cable length must be 30 m (1181.1 in.)
- Writen using the sound output reader, the case tanget mask be of or shorter.
   CP (Quasi-Peak): Quasi-peak value, Mean: Average value
   The above test items are conducted in the following conditions. 30M-230MHz QP : 40dB<sub>µ</sub> V/m (10m in measurement range) 230M-1000MHz QP : 47dB<sub>µ</sub> V/m (10m in measurement range) 4.1.2 Control panel

The GOT is an open type device (device installed to another device) and It not only assure the safety but also has a large effect to shut down the noise generated from GOT, on the control panel.

(1) Control Panel

- Control Panel (a) The control panel must be conductive. (b) When fixing a top or bottom plate of the control panel with bolts, do not coat the plate and bolt surfaces so that they will come into contact.
- And connect the door and box using a thick grounding cable in order to ensure the low impedance under high frequency.
   (c) When using an inner plate to ensure electric conductivity with the control panel, do not coat the fixing bolt area of the inner plate and control panel to ensure conductivity in the largest area as
- possible. (d) Ground the control panel using a thick grounding cable in order to
- ensure the low impedance under high frequency.
   (e) The diameter of cable holes in the control panel must be 10cm (3.94in.). In order to reduce the chance of radio waves leaking out, ensure that the space between the control panel and its door
- but, ensure that the space between the control parter and its door is small as possible. Paste the EMI gasket directly on the painted surface to seal the space so that the leak of electric wave can be suppressed. Our test has been carried out on a panel having the damping characteristics of 37dB max. and 30dB mean (measured by 3m method with 30 to 300MHz).
- (2) Connection of power and ground wires Ground and power supply wires for the GOT must be connected as described below.
- described below.
  (a) Provide a grounding point near the GOT. Short-circuit the LG and FG terminals of the GOT (LG: line ground, FG: frame ground) and ground them with the thickest and shortest wire possible (The wire length must be 30cm (11.81in.) or shorter.)
  The LG and FG terminals function is to pass the noise generated in the PC system to the ground, so an impedance that is as low as possible must be ensured. As the wires are used to relieve the noise, the wire itself carries a large noise content and thus short wiring means that the wire is prevented from acting as an antenna.
- Note) A long conductor will become a more efficient antenna at high frequency. (b) The earth wire led from the earthing point must be twisted with
- The earth we red not the earthing point hus be writed with the power supply wries. By twisting with the earthing wrie, noise flowing from the power supply wries can be relieved to the earthing. However, if a filter is installed on the power supply wires, the wires and the earthing wire may not need to be twisted.
- 4.1.3 Noise filter (power supply line filter)

The noise filter (power supply line filter) is a device effective to reduce conducted noise. Except some models, installation of a noise filter onto the power supply lines is not necessary. However conducted noise can be reduced if it is installed. (The noise filter is generally effective for reducing conducted noise in the band of 10MHz or less.) Usage of the following filters is recommended.

lanufacture SCHAFFNER SCHAFFNER TDK

64

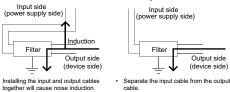
3A

Rated voltage

ЗA

ated curren

- The precautions required when installing a noise filter are described
- (1) Do not install the input and output cables of the noise filter togethe to prevent the output side noise will be inducted into the input side cable where noise has been eliminated by the noise filer.



(2) Connect the noise filter's ground terminal to the control panel with the shortest cable as possible (approx. 10cm (3.94 in.) or less).

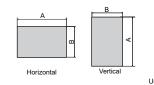
5. INSTALLATION

5.1 Control Panel Inside Dimensions for **Mounting GOT** 

Install the GOT on the control panel out of the way for the equipment inside the control panel. Do not install the GOT and the unit in prohibited areas for the installation.

Point
pplicable cable
ome cables may need to be longer than the specified dimensions when connecting to the
OT. Therefore, consider the connector dimensions and bending radius of the cable as
ell for installation

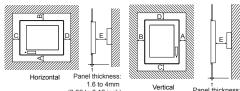
### 5.2 Panel Cutting Dimensions



141(5.55)<sup>+1(0.04)</sup> 197(7.76)<sup>+1(0.04)</sup> 0(0) GT2507T-WTSD 1.6(0.06) to 4(0.16)

When mounting the GOT, the following clearances must be maintained from other structures and devices. Some cables may need to be longer than the specified dimensions when connecting to the GOT. Therefore coercide the connector dimensions and handline reduce of the

connecting to the GOT. Therefore, consider the connector dimensions and bending radius of the cable as well for installation. For the lead-in allowance for cables at the bottom of the GOT, refer to the GOT2000 Series User's Manual (Hardware). For the vertical installation, install the GOT so that the vertical installation arrow printed on the GOT rear face points upward.



(0.06 to 0.16 inch)

Panel thickness 1.6 to 4mm (0.06 to 0.16 inch)

According to the dimensions in the following table, leave clearances between the GOT and the other devices. The values enclosed in square brackets apply to the case where no other equipment generating radiated noise (such as a contactor) or heat is installed near the GOT. However, keep the ambient temperature of the GOT to 65°C or lower to 65°C or lower. Linit: m

Item	GT2507T-W
A	64(2.52) or more
В	Horizontal: 81(3.19) or more [23(0.91) or more] Vertical: 53(2.09) or more [23(0.91) or more]
С	53(2.09)or more [32(1.26) or more]
D	Horizontal: 53(2.09) or more [23(0.91) or more] Vertical: 81(3.19) or more [23(0.91) or more]
E*1	100(3.94) or more[20(0.79) or more]

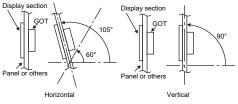
\*1: When opening or closing the battery cover: 72(2.83) or more

### 5.4 Control Panel Inside Temperature and Installation Angle

When installing the GOT to a panel, set the display section as shown below.Using the GOT with the installation angle other than the following deteriorates the GOT earlier.

- deteriorates the GOT earlier. Installing the GOT horizontally When installing the GOT with the installation angle between 60 to 105°, the temperature inside the control panel must be within 65°C. When installing the GOT with the installation angle other than between 60 to 105°, the temperature inside the control panel must be within 50 °C

Within 50 C. Installing the GOT vertically When the GOT is installed a 90° angle, the control panel inside temperature must be within 65°C. When the GOT is installed at any angle other t within 50°C. other than 90°, the control panel inside temperature must be



### 6. MAINTENANCE AND INSPECTION

nance and inspection for the GOT

### 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; damage, 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
- 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.

### Country/Region Sales office/Tel

Brazi

Turke Polar Russ Sout China Taiwa Kore Singa Thail

Vietn

India

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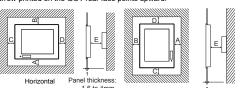
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   Mitsubishi Electric Automation, Inc.
   Sill Corporate Woods Tarkway, Vernon Hills, IL 60061, U.S.A.
   Sill Corporate Woods Tarkway, Vernon Hills, IL 60061, U.S.A.
   Mitsubishi Electric do Braail Comercia e Services Ltda.
   Wavefica Adelmo Cardana, 293, 21 andar, Bethaville, Barueri SP, Brazil
   Tel: +55-11-4693-3000
- Hail 1997 (House and House And Ho
- Mitsubishi Electric Europe B.V. German Branch Mitsubishi-Electric-Platz 1, 40882 Ratingen, Gerr Tel: +49-2102-486-0 Germany UK
- Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, UK-Hatfield, Hertfordshire, AL10 8XB, U.K. Tel: +44-1707-28-8780 Italy
  - Mitsubishi Electric Europe B.V. Italian Branch Centro Direzionale Colleoni Palazzo Sirio, Viale Colleoni 7, 2064 Agrate Brianza (MB), Italy Tel: +39-039-60531

  - Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Ruil, 7630-Apdo. 420, E-08190 Sant Cugat del Valles (Barcelona), Spain Tel: +34-935-65-3131
- bishi Electric Europe B.V. French Branch bulevard des Bouvets, 92741 Nanterre Cedex, France Mitsubishi Elecure 25, Boulevard des Bouve Tel: +33-1-55-68-55-68 France
- Mitsubishi Electric Europe B.V. Czech Branch Pekarska 621/7, 155 00 Praha 5, Czech Repul Czech

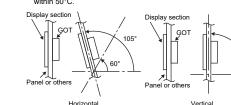
Unit: mm (inch) Model B Panel thickness

# 5.3 Mounting Position

ving clearances must be maintained



Display section



Refer to the GOT2000 Series User's Manual (Hardware) for

зу	Mitsubishi Electric Turkey A.S. Umraniye Branch Serifali Mahallesi Nutuk Sokak No:5, TR-34775 Umraniye / Istanbul, Turkey Tel: +90-216-526-3990
nd	Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 48, 32-083 Balice, Poland Tei: +48-12-347-65-00
ia	Mitsubishi Electric (Russia) LLC St. Petersburg Branch Piskarevsky pr. 2, bid 2, lit "Sch", BC "Benua", office 720; 195027 St. Petersburg, Russia Tel: +7-812-633-3497
h Africa	Adroit Technologies 20 Waterford Office Park, 189 Witkoppen Road, Fourways, South Africa Tel: +27-11-658-8100
a	Mitsubishi Electric Automation (China) Ltd. Mitsubishi Electric Automation Center, No.1386 Hongqiao Road, Shanghai, China Tel: +86-21-2322-3030
an	SETSUYO ENTERPRISE CO., LTD. 6F, No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan Tei: +886-2-2299-2499
a	Mitsubishi Electric Automation Korea Co., Ltd. 7F to 9F, Gangseo Hangang Xi-tower A, 401, Yangcheon-ro, Gangseo-Gu, Seoul 07528, Korea Tei: +82-2-3660-9569
apore	Mitsubishi Electric Asia Pte. Ltd. 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Tel: +65-6473-2308
and	Mitsubishi Electric Factory Automation (Thailand) Co., Ltd. 12th Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, Kwaeng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand Tel: +66-2682-2622 to 31
nesia	PT. Mitsubishi Electric Indonesia Gedung Jaya 8th Floor, JL. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia Tel: +62-21 3192-6461
am	Mitsubishi Electric Vietnam Company Limited 11th & 12th Floor, Viettel Tower B, 285 Cach Mang Thang & Street, Ward 12, District 10, Ho Chi Minh City, Vietnam. Tel: +84-28-3910-5945
	Mitsubishi Electric India Pvt. Ltd. Pune Branch Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune - 411026, Maharashtra, India Tel: +91-20-2710-2000
alia	MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W 2116, Australia Tel: +61-2-9684-7777

### MITSUBISHI ELECTRIC CORPORATION

0, JAPAN NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, 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, September 2021.