

for a greener tomorrow

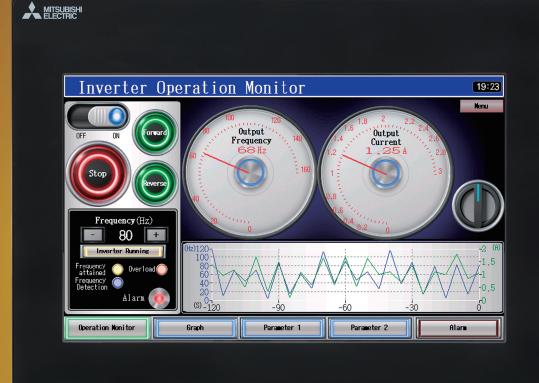


Graphic Operation Terminal GOT SIMPLE Series



Simple, high functioning, and user friendly model for a reliable system.

GOTSIMPLE



10 inch GS2110-WTBD

Superior performance

[Beautiful high resolution display] Resolution WVGA 800×480 dots

[Rich, vivid colors] TFT 65536 colors

[Plentiful data capacity] User memory 9MB

[Industrial environment tolerance] IP65F front face protection



7 inch GS2107-WTBD

Reduce design, setup, and maintenance cost! Increase production efficiency with Mitsubishi.

> Add value to your installation and machine! Utilize superior functionality to increase system value.

Streamlined screen design!

111

Intuitive operation is easy even for beginners.

[Standard interfaces]

Ethernet port

For connection with various equipment

RS-232, RS-422 Communication ports

and a second

USB device For connection with PC SD memory card slot

For carrying

P4~

P8

P9

Reduce design, setup, and maintenance cost

Reduce mass production installation setup costs

Start from SD memory card

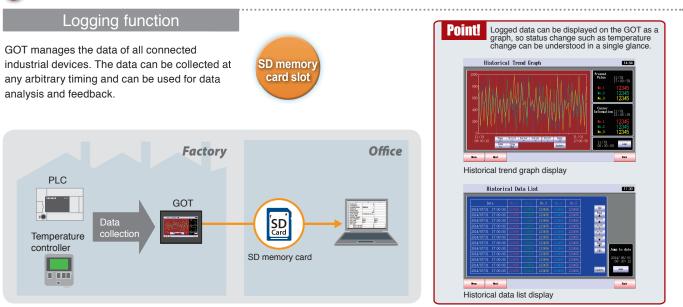
Transfer the screen data and all the necessary system data to make a GOT operate to a SD memory card in advance.

Then the GOT can be used just by inserting the SD memory card.

Useful for replacement or maintenance of GOT.



Device data collection

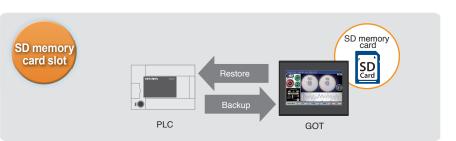


Backup of important programs

Backup/Restore

Using backup/restore function, PLC program can be replaced even without a PC. When PLC program is backed up to GOT*1, PLC program and machine operation can instantly be restored even if an unexpected failure occurs.

*1: Separate SD memory card required



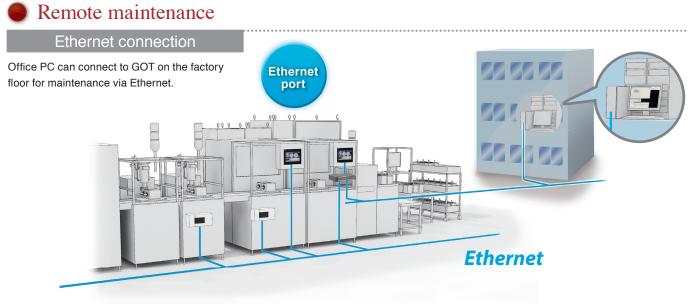
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<complex-block>

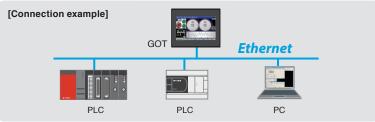
The GOT acts as a transparent gateway to enable programming, start up, and adjustment of Mitsubishi industrial devices.



Reduce labor cost and save the hassle of changing cable connections.



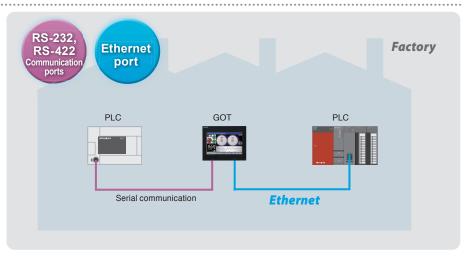
With Ethernet, it is possible to connect a system of mixed vendors and models, expanding the possibilities at the factory floor.



Use GOT SIMPLE to control industrial devices!

Multi-channel function

Up to 2 channels of industrial device can be controlled with one GOT. The data can be easily transferred between devices with just simple settings in GT Works3.



Direct connection to inverters

Inverter connection

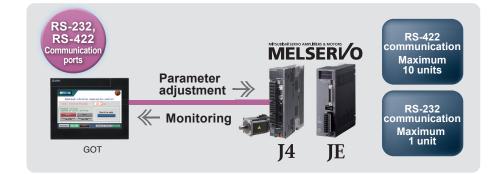
Inverter can be directly connected to GOT. Just by connecting them together, communication parameters can automatically be set. GOT can also monitor PLC function devices, and even when multiple inverters are connected, one GOT can manage them all.



Easy monitoring of servo operation status

Servo connection

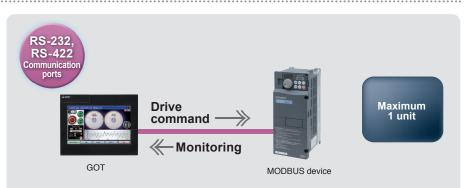
Easy setup, monitoring, adjusting alarms, diagnosis, parameter settings, and test operation.



MODBUS[®] communication also supported

MODBUS communication

As a master station, GOT can communicate with a MODBUS/RTU slave device. 1 device can be connected for monitoring of production line, etc.

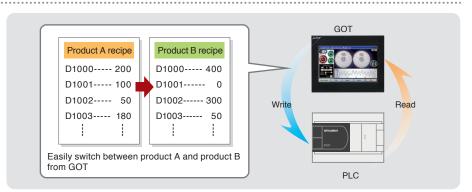


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Convenient for frequent changeover

Recipe function

Recipe information such as material blend and machine conditions can be saved in the GOT. This information can be written from the GOT to the PLC, enabling changeover without changing the PLC program. Adjusted data can also be read and stored in the GOT.



Monitor device value and set values for timer, etc.

Device monitor function

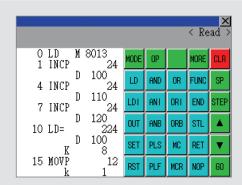
Monitor and change FX/L/Q series internal device ON/OFF status, word values, timer and counter values.

М	1	+F				D	108	C	UR[0]		
D	0	<u></u>	CUR [0]	D	109	C	UR[0]		
C	200	+F	CUR [10	00]	D	110	C	UR[0]		
	UP	RST()	SET [10	00]	D	111	C	UR[0]		
D	100		C	UR[0]	D	112	C	UR[0]		
D	101		C	UR[0]							
D	102		C	UR[0]							
D	103		C	UR[0]							
D	104		C	UR[0]							
D	105		C	UR[0]							
D	106		C	UR[0]							
D	107		Ċ	UR[0]							

Program change without a PC on-site

MELSEC-FX list editor

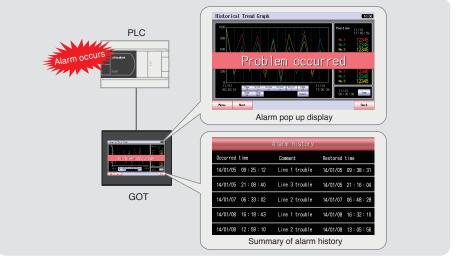
Convenient for minor on-site program changes.



Alarm status identification

Alarm function

Alarm functions such as alarm display, alarm history, and alarm pop up display are included, and display settings can be made on each screen. Language switching functionality is also supported.

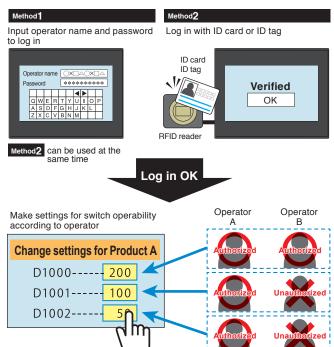


Add value to your installation and machine

Strengthened security with operator based authorization

Operator authentication function

Setting the level (authority) of operation and display for each operator can strengthen security and prevent operation errors. There are two methods for operator authentication at startup or when changing screens.



Easily installed on compact equipment

Vertical display

By using a GOT vertically, it can be easily installed on compact equipment and can neatly display vertical letters. Less scrolling is needed when displaying lists.



GOT SIMPLE function list

Screen design

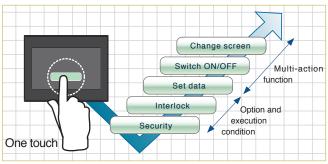
Figure/object functions Figure Logo text Touch switch Lamp Numerical display, Numerical input Text display, Text input Date display, Time display Comment display Parts display Parts movement Simple alarm display Alarm display (user) Level Panel meter Line graph Trend graph Bar graph Statistic bar graph Statistic pie graph Scatter graph Historical trend graph Historical data list display Functions performed on background of GOT Logging

Logging Recipe Device data transfer Trigger action

Setting multiple functions with one switch

Multi-action switch

Multiple functions can be set to one switch, so there is no need for multiple switches for separate functions. By setting execution sequence and conditions, delay, repeat, interlock settings can be combined, reducing the burden of PLC programming.



Language change according to country of the operator

Language switching

Screen can be easily made for switching between Japanese, Chinese, English, etc. 30 languages can be set for each comment. Screens, not only languages, can be switched based on purpose.

Column No.	Japan	Chir	na(GB)-Mincho	Japan	
Comment No. (DEC)	1 Japanese	2 C	hinese	3 Eng	lish
113	言語切り換え	语言	言切换	Langu	age switching
114	日本語	B	语	Japan	ese
115	中国語	汉	语	Chines	se
116	英 語	英	语	Englis	h
Japanese	¥	Chinese	_ ¥	Engli	ish
	「切り換え」		● ● ■ ■ ■ ■ ■	Engli	ish Language switch
	切り換え 日本語		■	Engli	
				Engli Switch	Language switch

Saving energy when operator is not present

Screen saver

Screen save time can be set from 1 to 60 minutes. By setting the backlight ON/OFF, energy can be saved when no operator is present. PLC can also control the ON/OFF status, so the backlight will turn ON and alarm screen will display when an alarm occurs.

Time action Hard copy (File output/Serial printer output) Project/screen script

Functions used with peripheral devices Barcode function

RFID function Report function (Serial printer output)

GOT functions

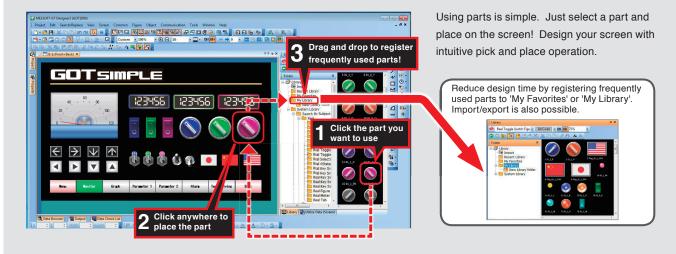
Base screen Overlap window Superimpose window Dialog window Key window Language switching System information Operator authentication Startup logo FA transparent Multi-channel function Station No. switching Backup/Restore

Debug functions

Device monitor MELSEC-FX list editor



Pick and place intuitive screen design is easy even for beginners



Required installation before using GOT SIMPLE GS installer installation procedure

Streamlined screen design

- Double click the GS Installer (GS Installer.exe) in the folder of GT Works3 Ver. 1.105K or later. Operate the personal computer in accordance with instructions given on the screen.
- 2. When the completion screen appears, click the [Finish] button to finish installing the GS Installer.
- * : The functions described here are available in GT Designer3 Version 1.118Y and later



[Storage place] DVD-ROM : <Root>\Disk1\Tool\GS\GS Installer.exe

For more details, please refer to the included manual

Variety of fonts full of expression

All kinds of fonts can be used, from standard font to Windows[®] fonts. All fonts support Unicode2.1, displayed clearly on the screen in any language.

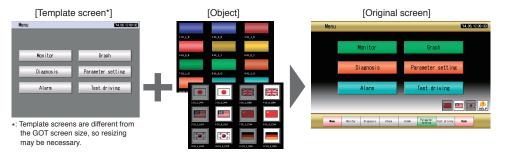
Complete parts library

Lamp, switch, and other objects can be selected from the library. Library images are available in several colors, so screens can easily be made with a sense of unity.





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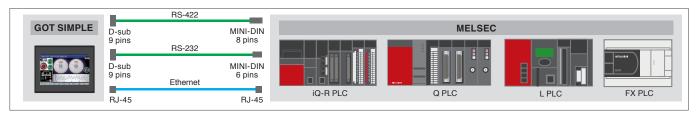
Interaction with various industrial devices

In addition to various built-in functions, direct connection between Mitsubishi industrial devices will improve productivity and reduce costs.



Connection to PLCs

A cable is required to connect GOT and PLC. Please prepare the appropriate cable.



Options

	Product name	Model	Cable length	Description	
		GT01-C10R4-8P	1m		
		GT01-C30R4-8P	3m	FXCPU <=> GOT	
	FXCPU direct connection cable, FXCPU expansion board connection cable	GT01-C100R4-8P	10m	FXCPU expansion board <=> GOT [MINI-DIN 8 pins <=> D-sub 9 pins]	
	FACE O expansion board connection cable	GT01-C200R4-8P	20m		
		GT01-C300R4-8P	30m		
		GT01-C30R4-25P	3m	On A /ACRU/motion controller CRUIA series]/EXCRU <-> GOT	
S-422 Sable	QnA/A/FXCPU direct connection cable,	GT01-C100R4-25P	10m	QnA/ACPU/motion controller CPU[A series]/FXCPU <=> GOT RS-422 converter cable [FA-CNV CBL] <=> GOT	
Cable	Computer link connection cable	GT01-C200R4-25P	20m	Serial communication unit <=> GOT	
		GT01-C300R4-25P	30m	[D-sub 25 pins <=> D-sub 9 pins]	
		GT09-C30R4-6C	3m		
	Operation link presenting apple	GT09-C100R4-6C	10m	Serial communication unit <=> GOT Computer link unit <=> GOT [Stranded wire <=> D-sub 9 pins]	
	Computer link connection cable	GT09-C200R4-6C	20m		
		GT09-C300R4-6C	30m	[
	Q/LCPU direct connection cable	GT01-C30R2-6P	3m	Q/LCPU <=> GOT [MINI-DIN 6 pins <=> D-sub 9 pins]	
	FXCPU expansion board connection cable, FXCPU special adapter connection cable	GT01-C30R2-9S	3m	FXCPU expansion board <=> GOT FXCPU special adapter <=> GOT [D-sub 9 pins <=> D-sub 9 pins]	
RS-232 Cable	FXCPU special adapter connection cable	GT01-C30R2-25P	3m	FXCPU special adapter <=> GOT [D-sub 25 pins <=> D-sub 9 pins]	
Cable	Computer link connection cable	GT09-C30R2-9P	3m	Serial communication unit <=> GOT Computer link unit <=> GOT [D-sub 9 pins <=> D-sub 9 pins]	
		GT09-C30R2-25P	3m	Serial communication unit <=> GOT Computer link unit <=> GOT [D-sub 25 pins <=> D-sub 9 pins]	
USB Cable	Data transfer cable	GT09-C30USB-5P	3m	PC[Screen design software] <=> GOT [USB-A <=> USB Mini-B]	

Product name	Model	Description
SD memory card	L1MEM-2GBSD	SD memory card 2GB
SD memory card	L1MEM-4GBSD	SDHC memory card 4GB

Connectable third-party PLCs

Manufacturer	Series/mod	el name	Computer link connection		CPU direct connection	
			RS-422	RS-232	RS-422	RS-232
		CJ1H				
	SYSMAC CJ1	CJ1G				0
		CJ1M	0	*2		
	0.000.000	CJ2H				
Omron	SYSMAC CJ2	CJ2M			×	O*3
		CP1H			1	
	SYSMAC CP1	CP1L		`		×
		CP1E [N type]*1		, ,		0
	KV-700					
	KV-1000					0
Keyence	KV-3000)	×	
	KV-5000					
	KV-5500					×

Manufacturer	Series/model name	Compu conne		CPU direct connection	
		RS-422	RS-232	RS-422	RS-232
Panasonic	FP0				
Industrial	FP-M	×			0
Devices	FP-Σ			×	
SUNX	FP-X	0			
	SIMATIC S7-200 series				
	SIMATIC S7-300 series	1			0
Siemens AG*4	SIMATIC S7-400 series		<	×	
	SIMATIC S7-1200 series	1			×

*1: Among CP1E (N type), only direct connection is possible for CPU units of 20 I/O points or less. *2: R5-422 or R5-232 can be selected *3: Only CJ2M-CPU1I can be connected *4: Use GT09-C30R20801-9S to connect to Siemens PLCs

For connection details, see the GOT2000 series connection manuals . below.



Mitsubishi Product (SH-081197ENG) Mon Mitsubishi Product 1 (SH-081198ENG)
 Non Mitsubishi Product 2 (SH-081199ENG)
 Microcomputer, MODBUS Products, Peripherals (SH-0811200ENG)



Specifications

General Specifications

Item			Specificatio	ns			
Operating ambient temperature	0 to 50°C						
Storage ambient temperature	-20 to 60°C	20 to 60°C					
Operating/Storage ambient humidity		n-condensing (The v nt temperature excee			humidity at	40°C and 90%.	
			Frequency	Acceleration	Half amplitude	Sweep Count	
		Under intermittent vibration	5 to 8.4Hz	-	3.5mm	10times each in X, Y and Z directions	
Vibration resistance	Conforms to IEC 61131-2		8.4 to 150Hz	9.8m/s ²	-		
		Under continuous	5 to 8.4Hz	-	1.75mm		
		vibration	8.4 to 150Hz	4.9m/s ²	-	1-	
Shock resistance	Conforms to IEC	61131-2 (147m/s ² , 3	times each in th	e X, Y, and Z d	lirections)		
Operating atmosphere	conductive dust	amp black, corrosive particles. t sunlight. (Same as	0	gas, or exces	sive amoun	t of electro	
Operating altitude*1	2000m (6562ft) I	nax.					
Installation location	Inside control pa	nel					
Overvoltage category*2	II or less						
Pollution degree*3	2 or less						
Cooling method	Self-cooling						
Grounding	Class D groundir	ig (100Ω or less), To	be connected to	the panel whe	n grounding	is not possible.	

*1 : Do not use or store the GOT under pressures higher than the atmospheric pressure of altitude 0m (0ft). Failure to observe this instruction may cause a malfunction. When the air inside the control panel is purged by pressurization, the surface sheet may be lifted by high pressure. As a result, the touch panel may be difficult to press, and the sheet may be peeled off.

3: This index index the section of the power supply to which the equipriment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the raged voltage of 300V is 2500V.
3: This index indicates the degree to which conductive pollution is generated in the environment twhere the equipment is used. In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condension.

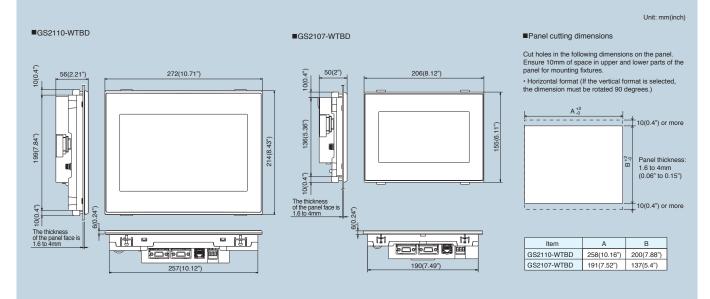
Power Supply Specifications

	Item	Specific	cations				
	nem	GS2110-WTBD	GS2107-WTBD				
Inpu	t power supply voltage	24VDC (+10%, -15%), ripple voltage 200mV o	or less				
Pow	er consumption	7.6W (317mA/24V) or less	6.5W (271mA/24V) or less				
	At backlight off	3.8W (158mA/24V) or less	3.8W (158mA/24V) or less				
Inru	sh current	17A or less (6ms, 25°C ambient temperature, maximum load)					
	nissible instantaneous er failure time	Within 5ms					
Nois	e immunity	Conforms to IEC61000-4-4, 2kV (power supply line)					
Diele	ectric withstand voltage	350VAC for 1 minute (across power supply terminals and earth)					
Insu	lation resistance	500VDC across power terminals and earth, 10 I	500VDC across power terminals and earth, 10 M Ω or more by an insulation resistance tester				

	Item	Specifi	cations				
	literin	GS2110-WTBD	GS2107-WTBD				
	Туре	TFT color liquid crystal display					
	Screen size	10"	7"				
	Resolution	800 × 480 [dots]					
Display	Display size	W222 (8.74) × H132.5 (5.22) [mm](inch) (Horizontal format) (Horizontal format)					
	Display character	16-dot standard font : 50 characters 30 lir	nes (2-byte) (Horizontal format)				
	Display color	65536 colors					
	Brightness	32-level adjustment					
Backlight		LED-type (no replacement required) Backlight off/screen saving time can be so	et.				
	Туре	Analog-resistive film type					
	Key size	Minimum 2 × 2 [dots] (per key)					
Touch panel	Number of points touched simultaneously	Simultaneous 2-point presses prohibited (Only one point can be touched.)					
	Life	1 million times (operating force 0.98N max.)					
Memory	C drive	Flash memory (Internal) (9Mbytes), for storing project data, OS					
wemory	C drive	Life (Number of write times) 100,000times					
	RS-422	RS-422, 1ch Transmission speed : 115200/57600/38400/19200/9600/4800bps Connector shape : D-sub 9 pins (Female) Application : For communicating with controllers Terminating resistor : 330Ω fixed					
Built-in	RS-232	RS-232, 1ch Transmission speed : 115200/57600/38400/19200/9600/4800bps Connector shape : D-sub 9 pins (Male) Application : For communication with controller, bar code reader and printer For PC connection (FA transparent function)					
interface	Ethernet	Data Transfer method : 100BASE-TX, 10BASE-T, 1ch Connector shape : RJ-45 (modular jack) Application : For communication with controllers For PC connection (Project data read/write, FA transparent function)					
	USB	USB (Full Speed 12Mbps) 1ch Connector shape : Mini-B Application : For PC connection (Project data read/write, FA transparent function)					
	SD memory card	Conforms to the SD standard, 1ch Supported memory card : SDHC memory card, SD memory card Application : Project data read/write, logging data save					
Buzzer output		Single tone (LONG/SHORT/OFF adjustat	ole)				
Protective stru	icture	IP65F (only the front part of the panel)					
External dime	nsions	W272 (10.71) × H214 (8.43) × D56 (2.21) [mm] (inch)	W206 (8.11) × H155 (6.11) × D50 (1.97 [mm] (inch)				
Panel cutting	dimensions	W258 (10.16) × H200 (7.88) [mm] (inch) (Horizontal format)	W191 (7.52) × H137 (5.40) [mm](inch) (Horizontal format)				
Weight		Approx. 1.3kg (Excluding mounting fixtures)	Approx. 0.9kg (Excluding mounting fixtures)				
	oftware package Designer3)	Version 1.105K or later*					

* : Installation of GS installer is required. The functions described here are available in GT Designer3 Version 1.118Y and later.

External dimensions



Graphic Operation Terminal GOT SIMPLE Series

▲ Safety Warning • To ensure proper use of the products in this document, please be sure to read the instruction manual prior to use.

▲ Conditions of use
 The after sales support for this product differs from other Mitsubishi GOT products. Contact your local sales outlet for details.

Registration

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
 Ethernet is a trademark of Xerox Corporation in the United States.
 SD and SDHC Logos are registered trademarks or trademarks of SD-3C, LLC.
 MODBUS is a registered trademark of Schneider Electric SA.

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Actual screen may appear different from this catalog.

MITSUBISHI ELECTRIC CORPORATION

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