for a greener tomorrow

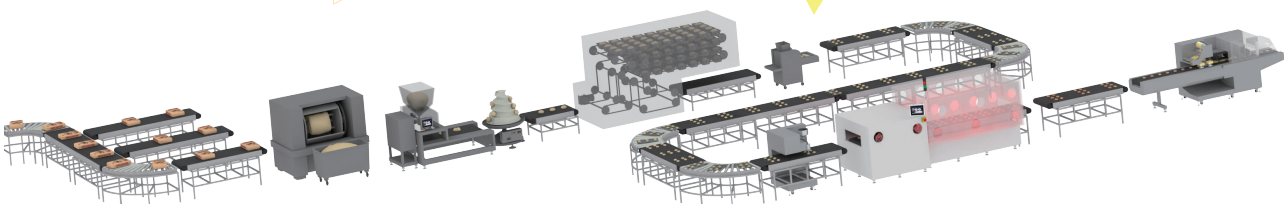
MITSUBISHI ELECTRIC
Changes for the Better

FACTORY AUTOMATION

e-F@ctory

Graphic Operation Terminal
GOT SIMPLE Series

GOT SIMPLE
Graphic Operation Terminal

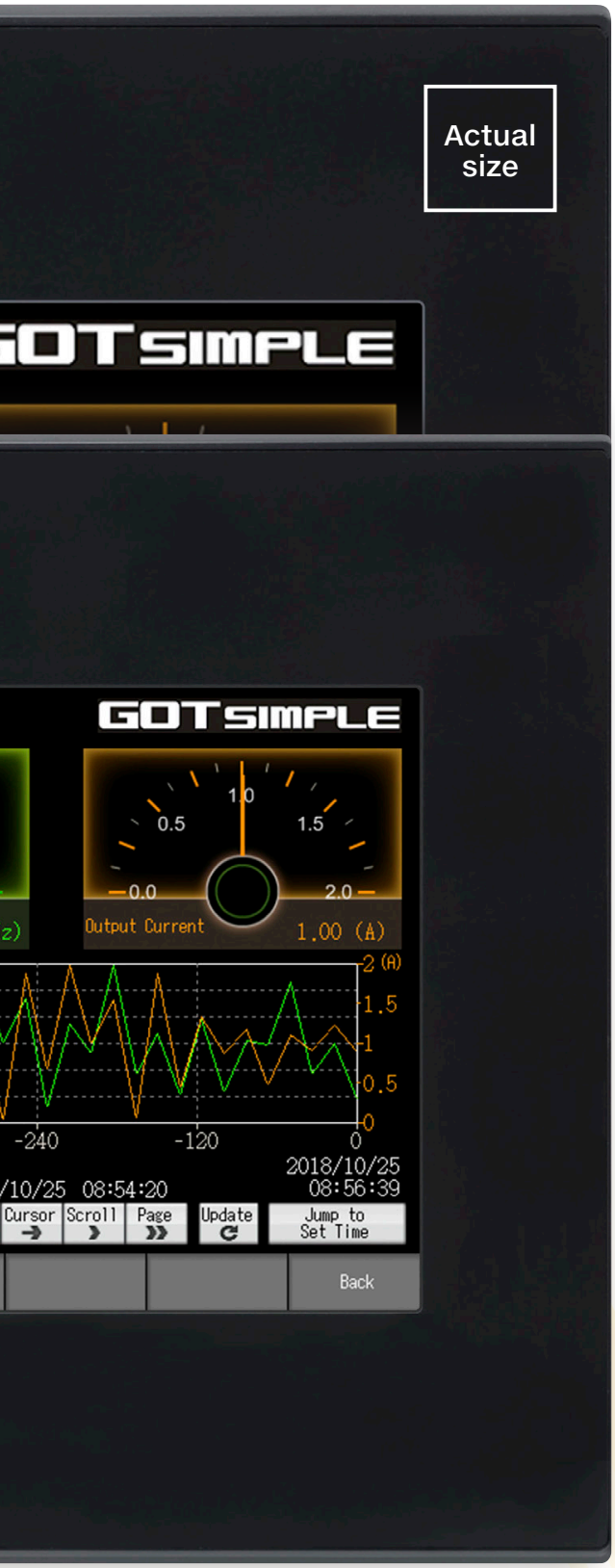


Simple model with pursued usability

10" widescreen GS2110-WTBD

7" widescreen GS2107-WTBD

GOT SIMPLE



Sufficient basic specifications

Widescreen displays large amounts of information

With a high-resolution WVGA display, screen display utilizing the display area on the side such as alarm message and trend graph is possible.

Connectivity with various industrial devices

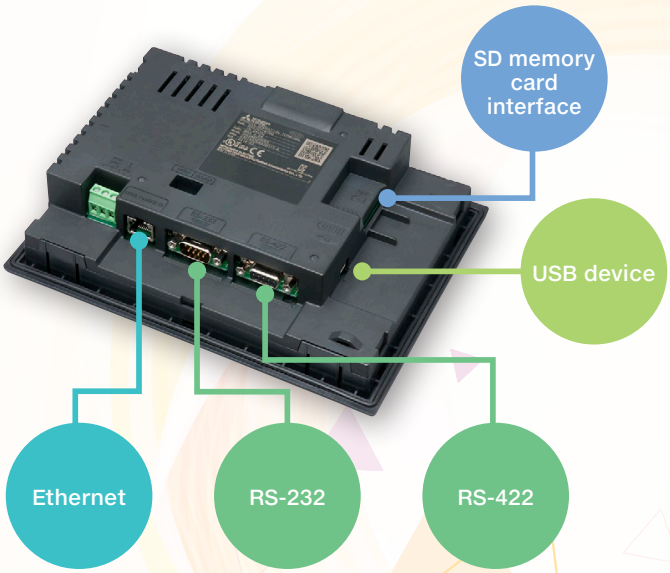
The GOT can be connected to various industrial devices such as programmable controllers of other companies as well as Mitsubishi Electric industrial devices, and status monitoring of the equipment is realized.

Environmentally resistant

With protection structure of the front surface IP65F, the GOT can be used with various devices in various production sites.

Built-in basic interfaces

Basic interfaces such as Ethernet interface are equipped as standard. The GOT can be connected with various industrial devices in various connection types.



INDEX

Reduce design, setup, and maintenance cost

Reduce mass production installation setup costs

SD memory card interface

Start from SD memory card

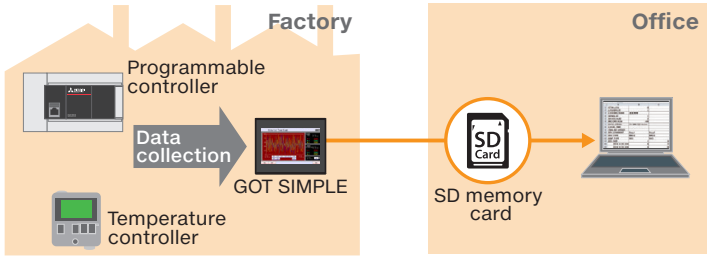
Transfer the screen data and all the necessary system data to make a GOT operate to a SD memory card in advance. Then the GOT can be used just by inserting the SD memory card.
Useful for replacement or maintenance of GOT.

Industrial devices data collection

SD memory card interface

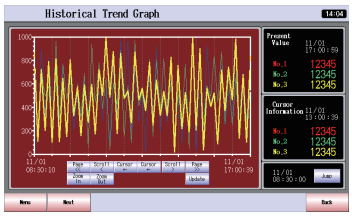
Logging function

GOT manages the data of all connected industrial devices. The data can be collected at any arbitrary timing and can be used for data analysis and feedback.

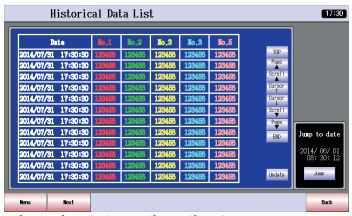


Point

Logged data can be displayed on the GOT as a graph, so status change such as temperature change can be understood in a single glance.



Historical trend graph display



Historical data list display

Recommended

Backup important programs

SD memory card interface

Backup/Restoration function

Sequence programs can be replaced even without a personal computer. When the programs and parameters are backed up to GOT*1, the data and machine operation can instantly be restored even if an unexpected failure occurs.

NEW

Backup/restoration of MELSEC iQ-F series are supported.

*1 A separate SD memory card is required.
*2 The target connection devices are QCPU, LCPU, FX5UCPU and FXCPU.

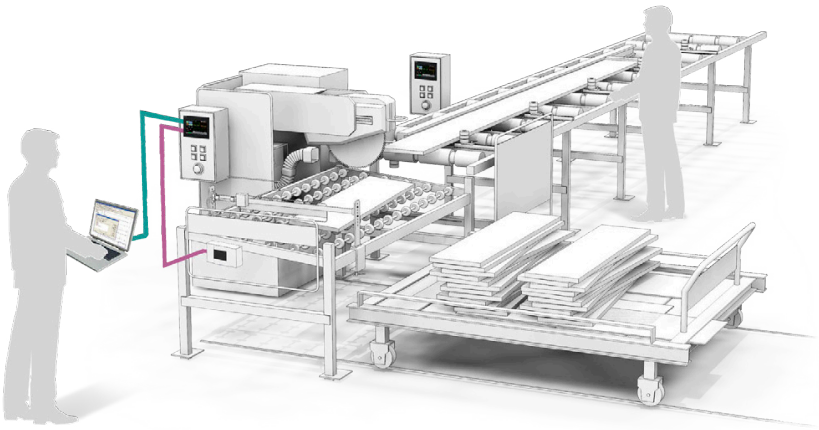
Useful

Setup and modification on-site

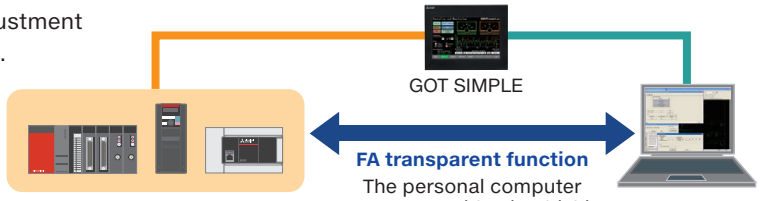
USB device | RS-232/RS-422 | Ethernet

FA transparent function

Set up and modify devices without changing cable connections.



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

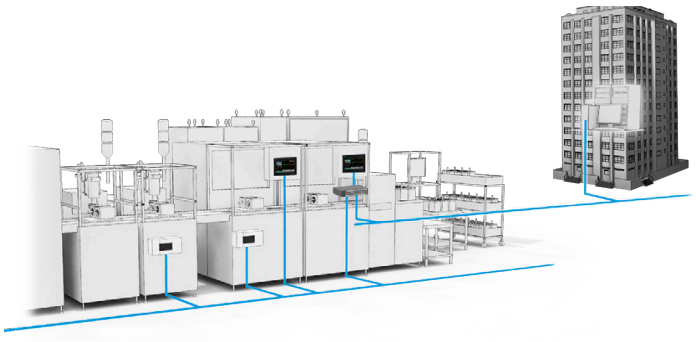


Remote maintenance

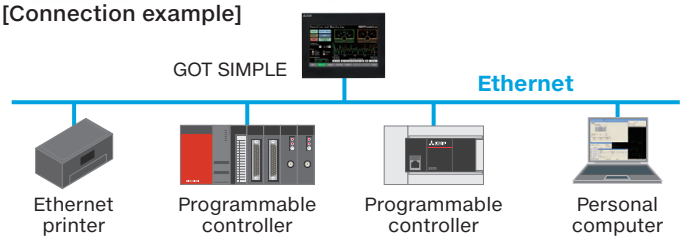
Ethernet

Ethernet connection

Office personal computer can connect to GOT on the factory floor for maintenance via Ethernet.
With Ethernet, it is possible to connect a system of mixed vendors and models, expanding the possibilities at the factory floor.



[Connection example]



NEW

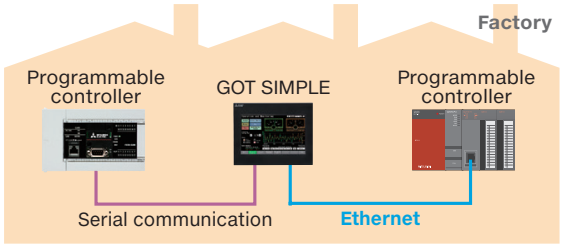
Ethernet printers are supported. The data such as hard copy can be printed by an Ethernet printer on the network.

Use GOT SIMPLE to control industrial devices

RS-232/RS-422 Ethernet

Multi-channel function

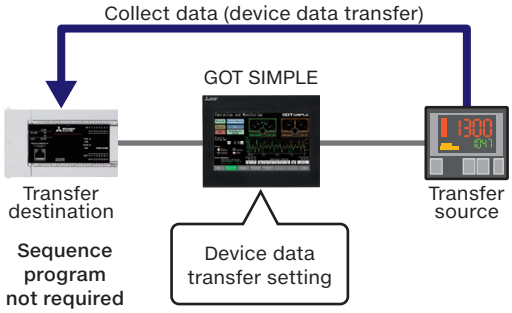
Up to 2 channels of industrial device can be controlled with one GOT. The data can be easily transferred between devices with just simple settings in GT Works3.



Easily collect data from connected devices

Device data transfer function

Using GT Works3, simply set source devices, destination devices, and triggers and you can transfer data between industrial devices. Data on the connected devices can be collected in the programmable controller without a sequence program.

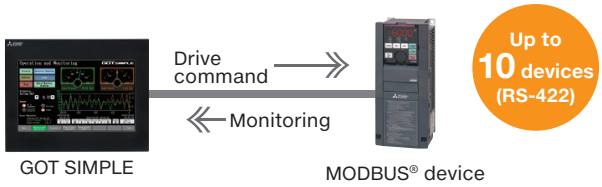


MODBUS® communication also supported

RS-232/RS-422

MODBUS® communication

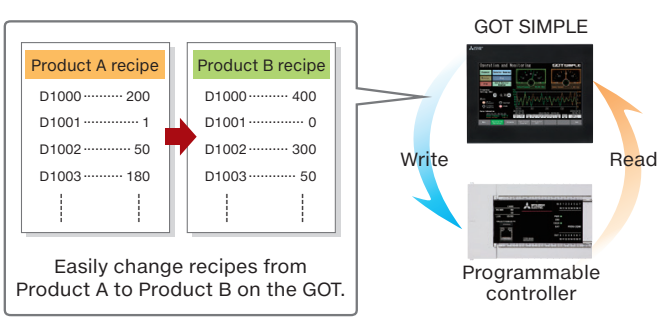
As a master station, GOT can communicate with a MODBUS®/RTU slave device. 10 devices (RS-422 2 pair) can be connected for monitoring of production line, etc.

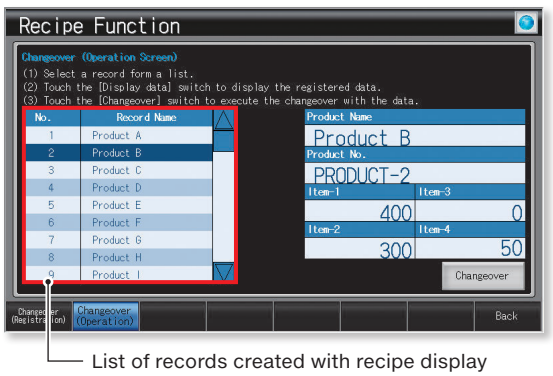


Simple, easy-to-understand setup

Recipe function & recipe display (record list)

GOT saves the recipe information (device values) such as material blend and machine conditions. You can change the recipe on the GOT and write it to a programmable controller to quickly perform the changeover. Changing recipes (changeover) is easy on a user-created screen or on the utility screen. The users can easily create screens by using the recipe display (record list).



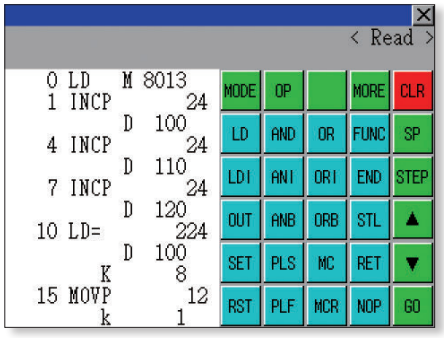


Recommended

Program change without a personal computer on-site

MELSEC FX list editor

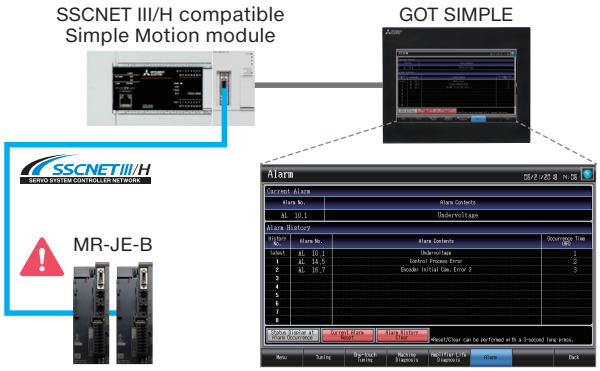
With the GOT, sequence programs of FX Series programmable controllers can be edited in the list format. Convenient for minor on-site program changes.



Display industrial devices alarms

Alarm function

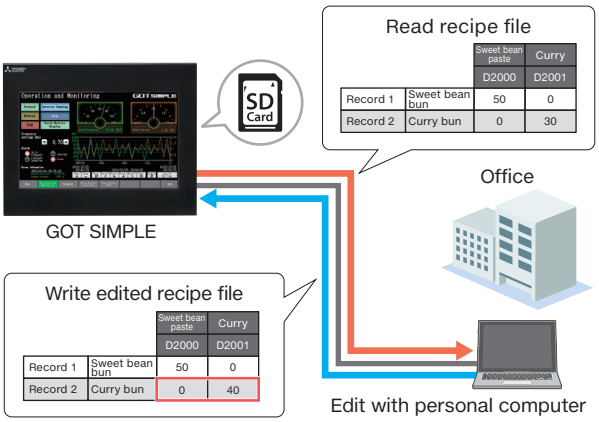
Use the GOT to display and check alarms set by the users. Alarms of the connected device can be monitored and the equipment status can be checked. When a problem occurs, you can quickly troubleshoot the problem.



Increase efficiency of maintenance work

Reading/writing resource data

The GOT resource data can be read out to the personal computer, corrected, and then written back*1. The efficiency of maintenance work is enhanced as there is no need to exchange data with an SD memory card.



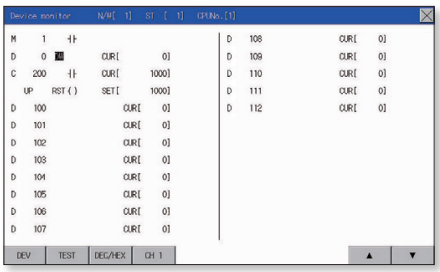
*1 For the details on resource data that can be read and written, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

Recommended

Monitor device value and set values for timer, etc.

Device monitor function

Monitor and change internal device ON/OFF status, word values, timer and counter values of connected devices such as MELSEC programmable controllers.



Recommended

GOT Easy Drive Control Inverter Interactive Solutions

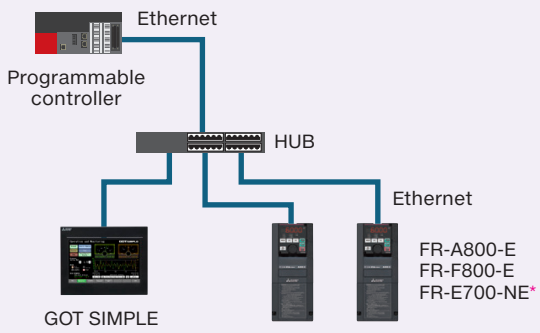
GOT Drive

Challenges that cannot be resolved just with the inverter can now be resolved with GOT2000 and inverter interactive functions.
The GOT Drive enhanced functionality is designed to eliminate need for additional hardware, software and suits customer's applications to realize central monitoring, speed up system startup, improve predictive maintenance and troubleshooting.

[System configurations]

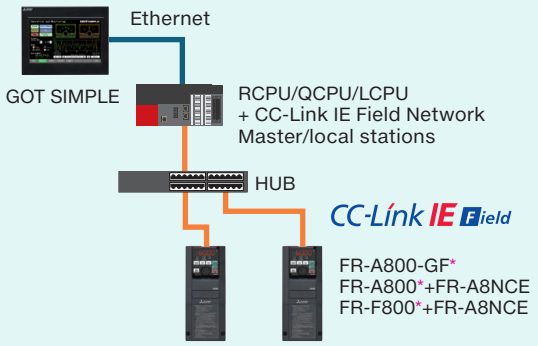
Select the required connection type to match your system configuration. Multiple inverters can be monitored with one GOT by switching the target station number.

CASE1 Direct connection with Ethernet



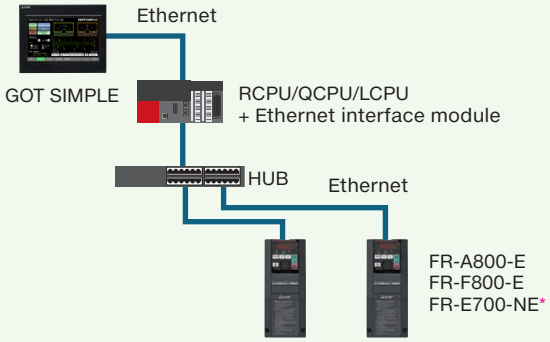
* The models with SERIAL "□88*****" or later on the rating plate are supported.

CASE2 CC-Link IE Field Network connection via programmable controller



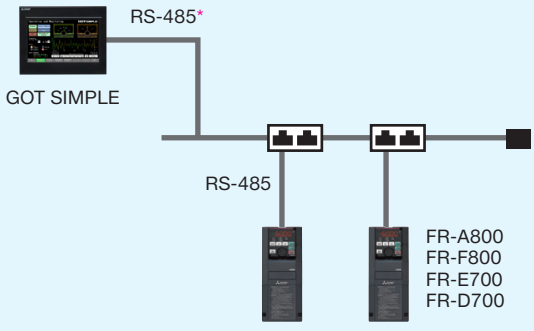
* The models with SERIAL "□83*****" or later on the rating plate are supported.

CASE3 Ethernet connection via programmable controller



* The models with SERIAL "□88*****" or later (for FR-E700-SC-NNE and FR-E700-SC-ENE, "□89*****" or later) on the rating plate are supported.

CASE4 Direct connection with RS-485



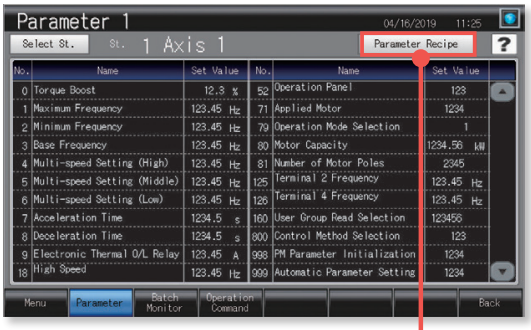
* The connection interface of the GOT is RS-422.

With GOT, the inverter's parameters can be adjusted with the control panel closed!

Parameter settings (simple mode)

Use the GOT on the front of the control panel to adjust the inverter's simple mode parameters. The parameter names can be confirmed on a list, so the required parameters can be easily found and set.

Parameter Setting screen*1



Back up (save) or restore (write) parameters as a recipe file when necessary.

With GOT, the inverter's parameters can be monitored in a batch with the control panel closed!

Batch monitor

The inverter's current values such as the output frequency, output current, and output voltage can be monitored with the GOT without preparing the personal computer or directly confirming the inverter.

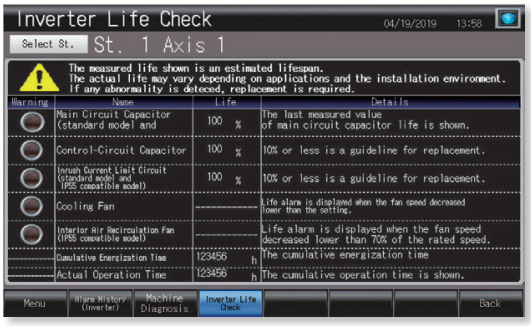
Batch Monitor screen*1

With GOT, the replacement timing of the inverter's components can be displayed and predictive maintenance can be performed!

Inverter life diagnosis

GOT can be used to monitor the operation status of the inverter's components (main circuit capacitor, control circuit capacitor, cooling fan, etc.) and confirm the replacement timing. Perform predictive maintenance by replacing parts before the inverter fails.

Inverter Life Diagnosis screen*1



*1 Parameters and devices to be monitored can be set and displayed on a screen. The above is an example for screen design.

Recommended

GOT Easy Drive Control Servo Interactive Solutions

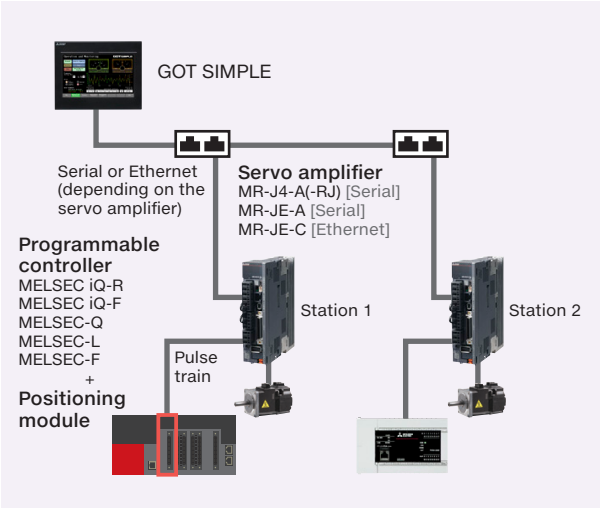
GOT Drive

The GOT Drive easily visualizes the servo system status to realize speed up of the system startup and improve predictive maintenance and troubleshooting.

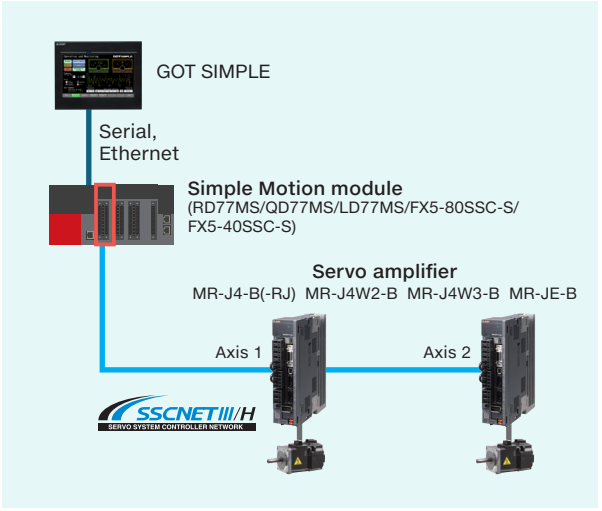
[System configurations]

Select the required connection type to match your system configuration. Multiple servo amplifiers can be monitored with one GOT by switching the target station number and axis number.

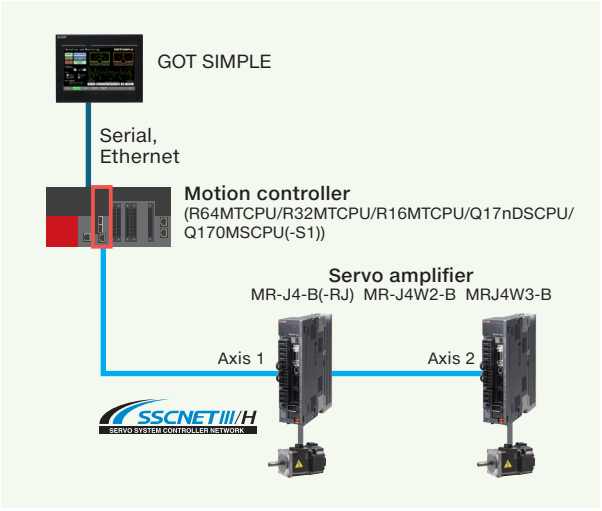
CASE1 Ethernet/Serial direct connection



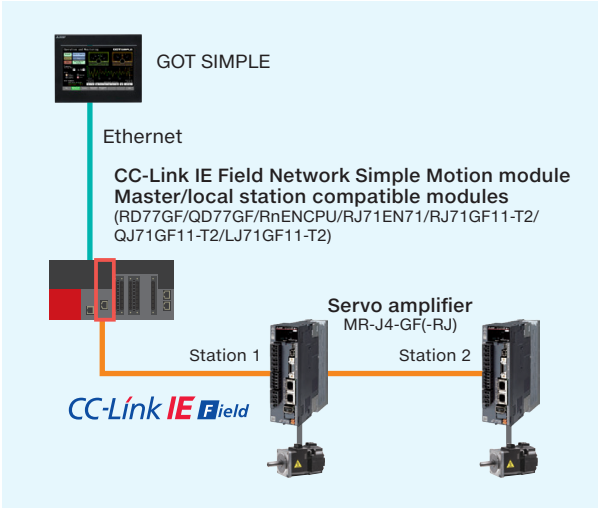
CASE2 Simple Motion module connection



CASE3 Motion controller connection



CASE4 CC-Link IE Field Network connection

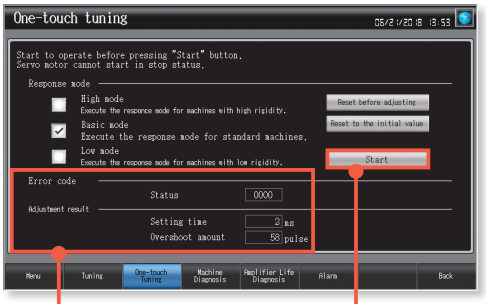


Adjust servos without a personal computer!

One-touch tuning function

Just a single touch on the switch on the GOT screen to perform adjustment work, which is difficult without experience. You can adjust servo amplifier automatically by selecting from three response modes.

One-touch tuning screen*1



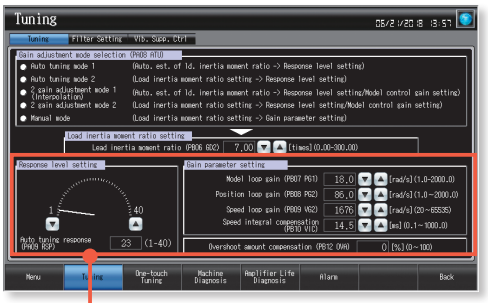
Adjustment results are shown

Just a single touch on the switch

Tuning function

After one-touch tuning, to obtain higher performance, you can perform fine tuning of gain parameters, machine resonance suppression filter, and vibration suppression control parameters in the tuning screen.

Tuning screen*1



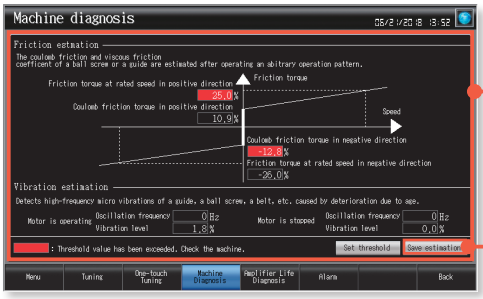
Perform fine tuning of gain parameters, tuning response, and overshoot amount.

Predict machine deterioration and improve system predictive maintenance without a personal computer!

Machine diagnosis function

GOT can display estimated values (machine friction, torque vibration, etc.) that are collected by the machine diagnosis function of the servo amplifier. The difference between the initial value (at the startup) and the current value can be used to predict deterioration of the machine. Using this function with the GOT's alarm function will help you perform timely maintenance of machine parts.

Machine diagnosis screen*1



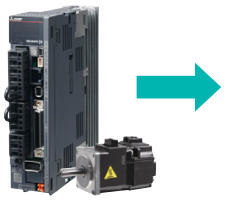
Displays the estimated value upon completion of the machine diagnosis. When any of the estimation values exceed the threshold values that are set on the GOT, the numerical value display area turns red.

Save estimation values to file and compare the values to check the deterioration of the machine.

Supports predictive maintenance functions of servo amplifiers!

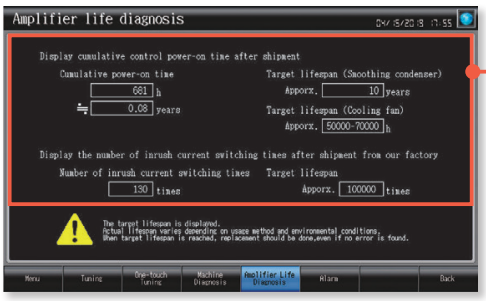
Servo amplifier life diagnosis function

Check cumulative operation time, on/off counts of inrush relay on GOT. In addition, replacement timing of servo amplifier components (capacitor, relay) can be displayed on the GOT.



Periodic check

Servo amplifier life diagnosis screen*1



Check the smoothing capacitor energization time or the inrush relay on/off times at a glance.

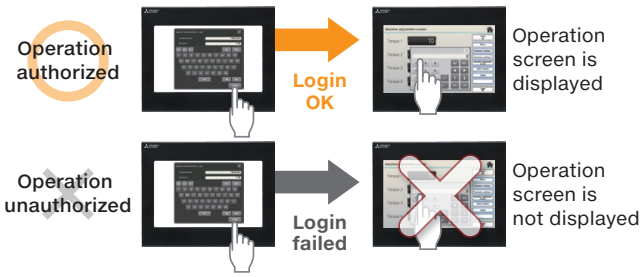
*1 Sample screens are available for connection with MR-JE-A and MR-JE-B for the GOT SIMPLE series.

Add value to your installation and machine

Security with password management

Operator authentication function

Setting the operation authority and the viewing authority per operator achieves “enhanced security” and “prevention of improper operation”. Operator authentication can be performed at startup and when the screen is switched.

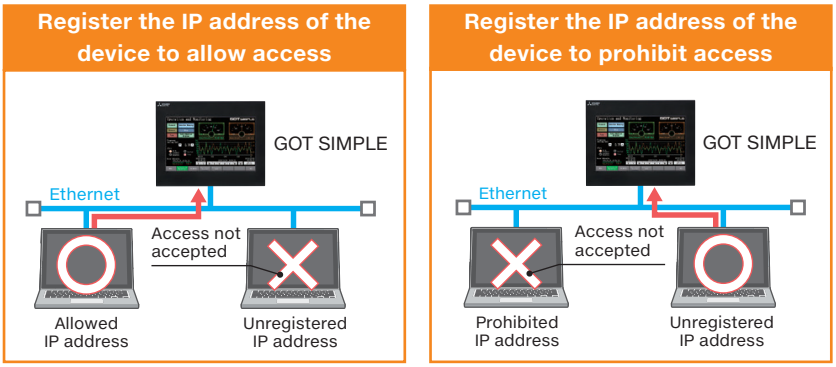


Reduce risk of unauthorized access through network

Ethernet

IP filter function

Registering the IP address of the device which can access the GOT restricts the access from unauthorized devices.

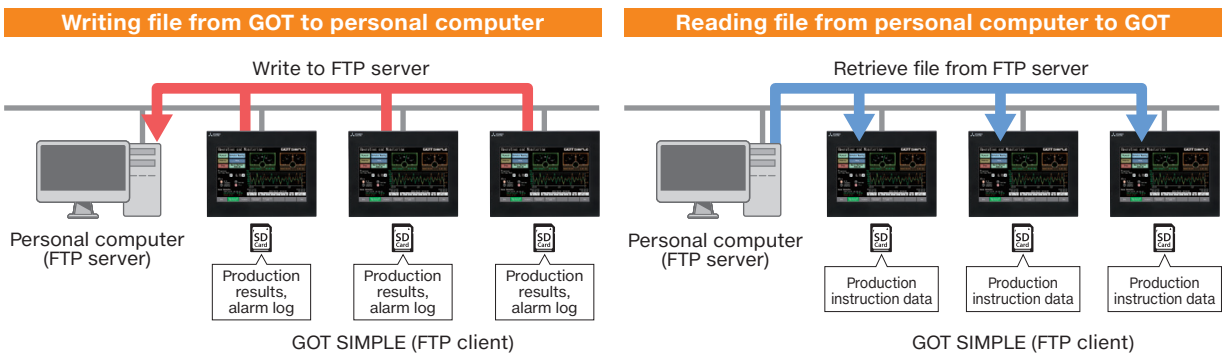


Easily exchange data with FTP

Ethernet

File transfer function

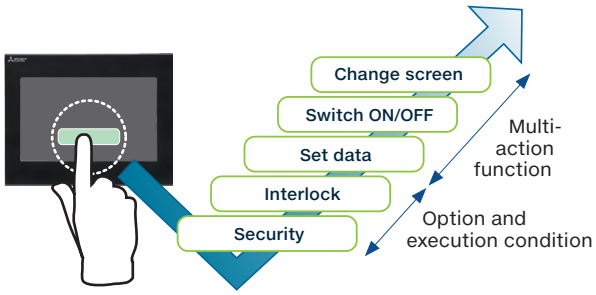
By using GOT, production results and alarm logs can be stored in an SD memory card of the GOT (FTP client) and sent to a personal computer (FTP server). The GOT can also receive the production instruction data from the personal computer.
By using the GOT as an FTP server, files can be read to and written from the personal computer that acts as an FTP client. (FTP server function)



Setting multiple functions with one switch

Multi-action switch function

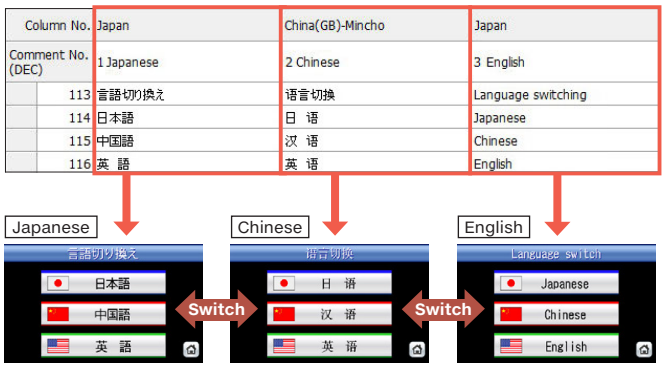
Multiple functions can be set to one switch, so there is no need for multiple switches for separate functions. By setting execution sequence and conditions, delay, repeat, interlock settings can be combined, reducing the burden of programmable controller programming.



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.

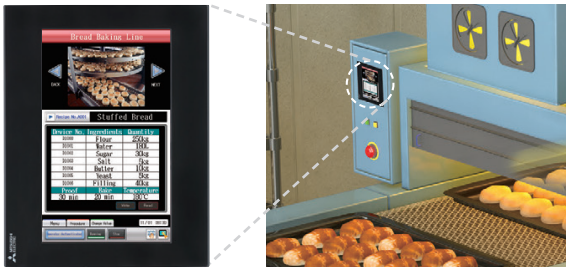


Column No.	Japan	China(GB)-Mincho	Japan
Comment No. (DEC)	1 Japanese	2 Chinese	3 English
113	言語切り換え	语言切换	Language switching
114	日本語	日 语	Japanese
115	中国語	汉 语	Chinese
116	英 語	英 语	English

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.



Saving energy when operator is not present

Screen saver function

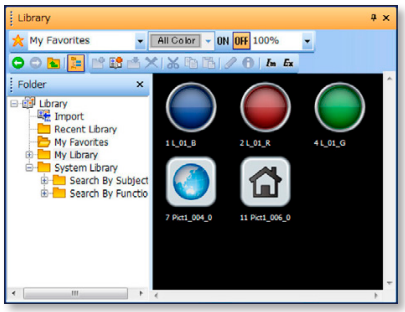
Screen save time can be set from 1 to 60 minutes. By setting the backlight ON/OFF, energy can be saved when no operator is present. Programmable controller can also control the ON/OFF status, so the backlight will turn ON and alarm screen will display when an alarm occurs.

Streamlined screen design

Pick and place intuitive screen design is easy even for beginners

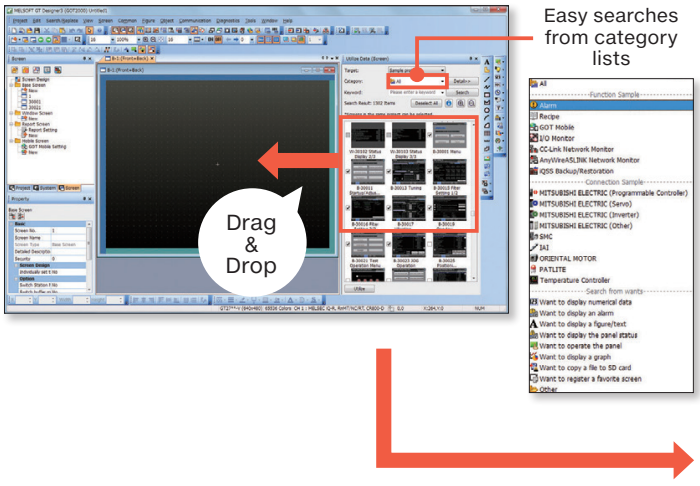
Using parts is simple. Just select a part and place on the screen! Design your screen with intuitive pick and place operation.

Reduce design time by registering frequently used parts to 'My Favorites' or 'My Library'.
Import/export is also possible.



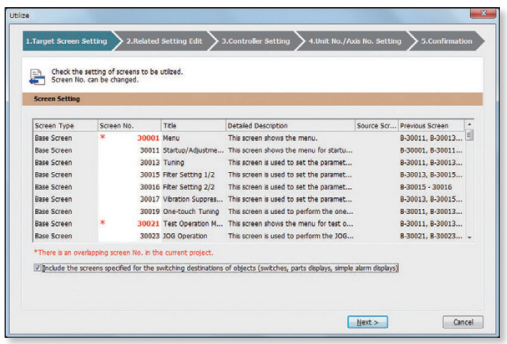
Utilize the past assets and sample screens

Individual screens can be utilized from past projects and sample projects. Select the screens to utilize, then drag and drop to launch the utilization wizard. Just follow the simple steps and you can utilize the project data.



Easy searches from category lists

Utilization wizard

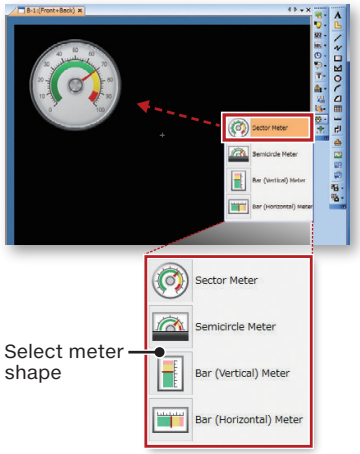


Simple step navigation.
Settings related to target screen (comment group, logging, scripts, etc.) can also be utilized.

Easily create stylish meters with a graphical meter

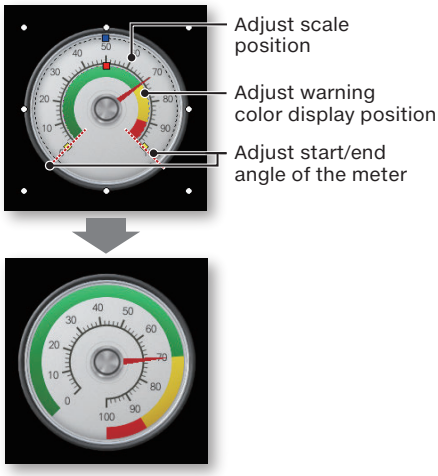
Just select a meter from the preset list and you can create stylish, clear meters. The position and angle of scales can be adjusted by mouse operation and the shape and design can be changed easily. Warning color display indicates the machine status clearly.

Select from the toolbar



Select from the preset list

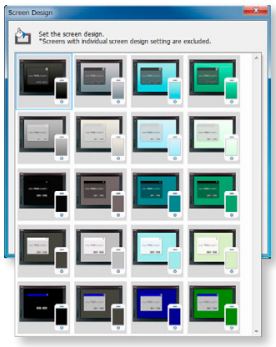
Easy to adjust settings by mouse operation



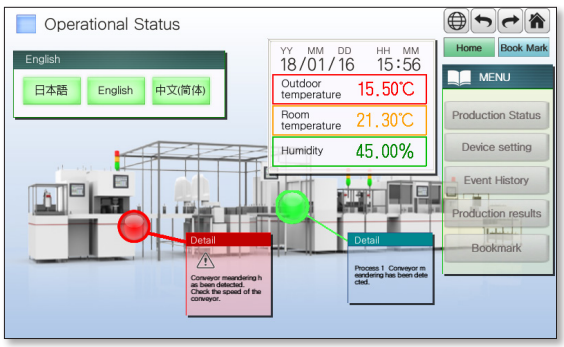
More beautiful graphics

With GOT Graphic Ver.2, you can select the required screen design and change it in a batch. Gradation drawing and transparency setting can be performed.

Screen design list



Gradation background and transparency setting of the window screen



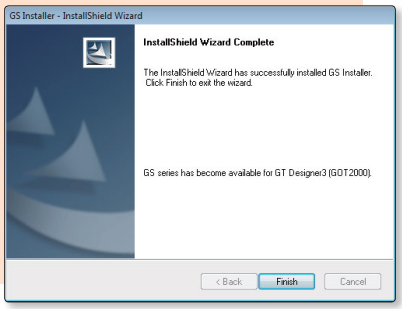
[Note] When the software is earlier than GT Works3 Version1.215Z, installation of the following is required before use of the GOT SIMPLE series.

■ GS installer installation procedure

1. 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.

■ Storage place

DVD-ROM: <Root>\Disk1\TOOL\GS\GS Installer.exe



* When the software is GT Works3 Version1.215Z or later, the above procedures are not required.
* When you use the functions introduced in this catalog, install GT Works3 Version1.215Z or later.
* For more details, please refer to the GS21 General Description manual.

Mitsubishi Electric Industrial Devices
GOT SIMPLE Solutions

Using Mitsubishi Electric industrial devices together provides ideal, simple solutions that enhance efficiency and reduce production costs.

02 Production

01 Material handling

Recommended for simple control!

GOT SIMPLE

+

FREQROL-CS80

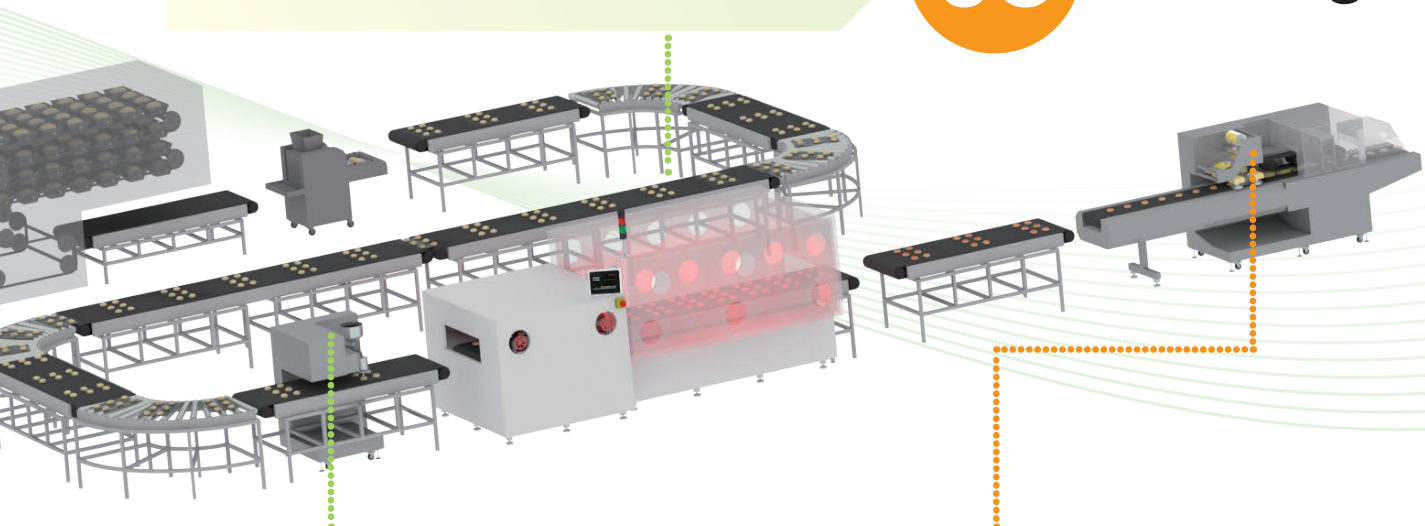
Recommended for simple positioning control!

GOT SIMPLE

+

MR-JE-A

03 Packaging



Recommended for smooth drive control!

GOT SIMPLE

+

FX5 CPU module + Simple Motion module

MR-JE-B

Recommended for easy automation!

GOT SIMPLE

+

FX5 CPU module

FREQROL-CS80

Recommended for building networks!

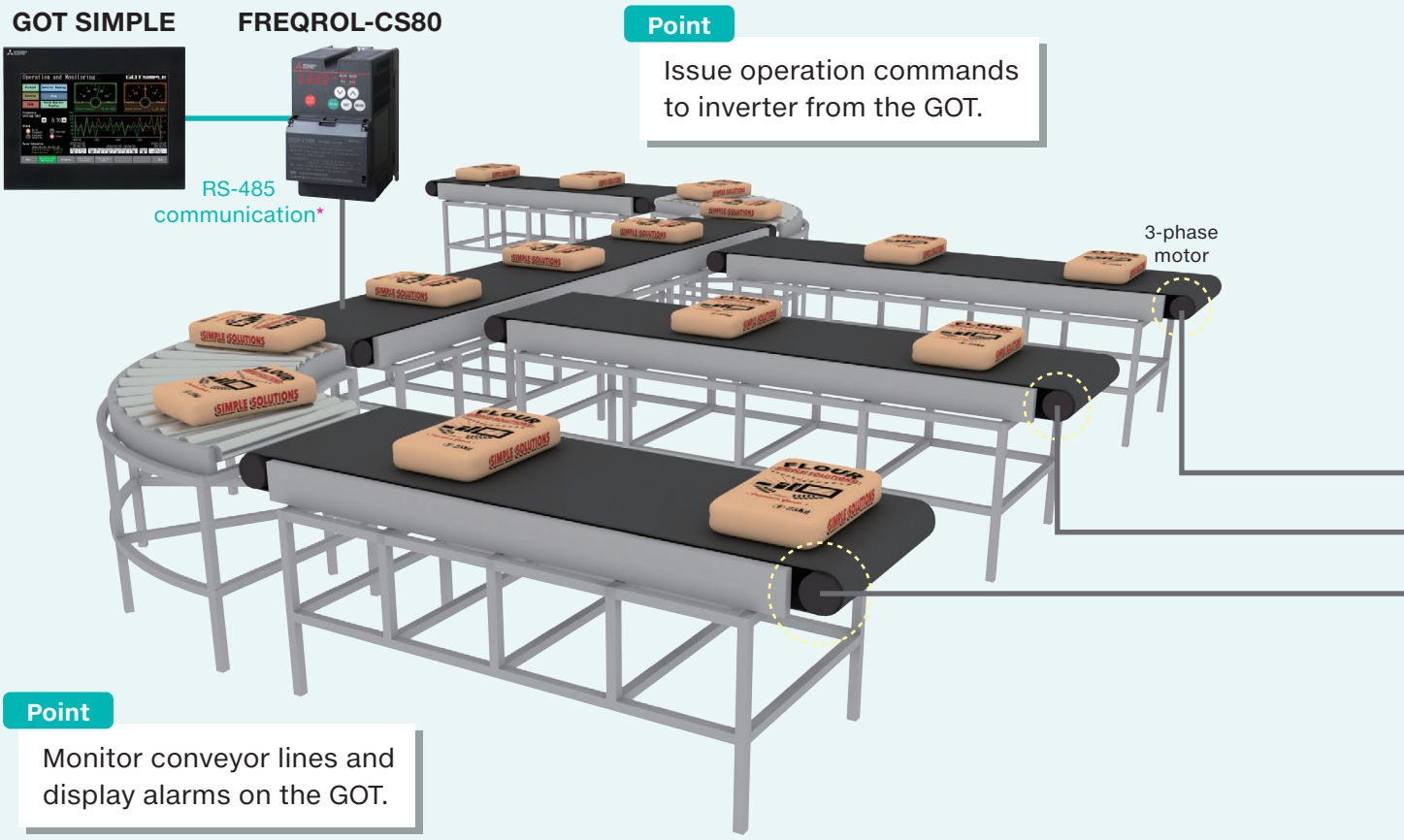
GOT SIMPLE

+

FX5 CPU module

MR-JE-C

01 Material handling — Easy and simple control with inverters



Recommended functions for each application — FREQROL-CS80

Increased excitation deceleration

The deceleration time can be reduced without using a brake resistor. The tact time can be reduced for a transfer line or similar applications.

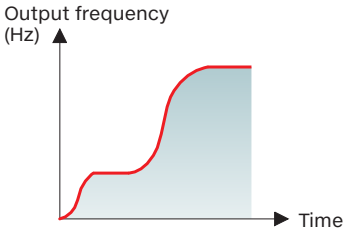
Communication operation (RS-485 communication)*1

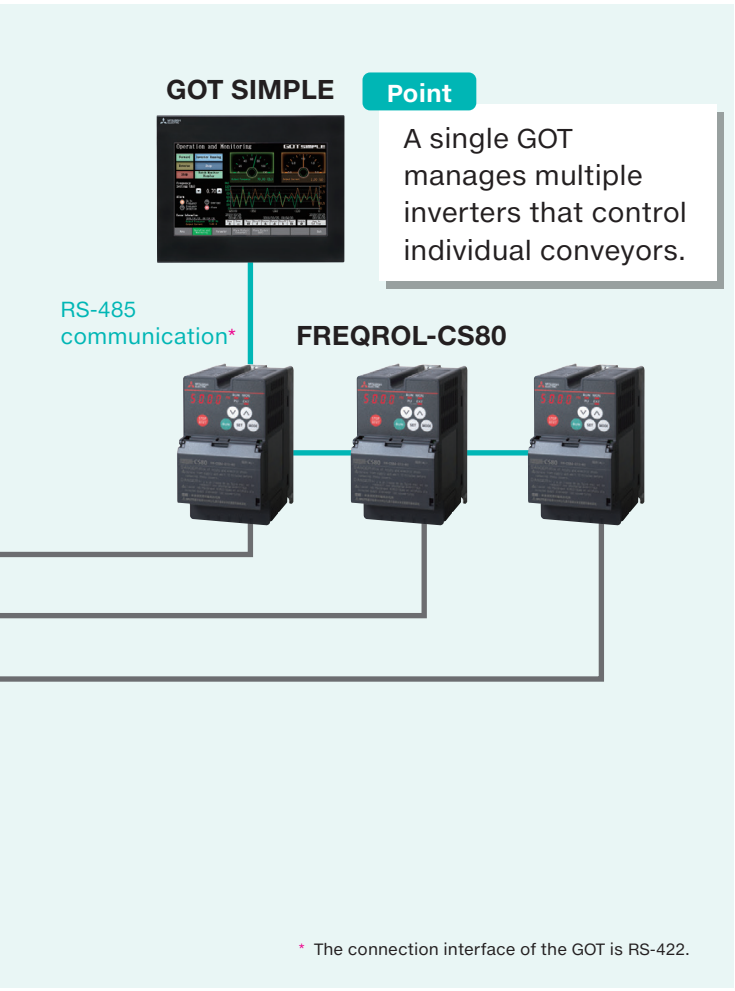
Conveyor belts can be controlled individually by using multiple inverters. Automatic operation is possible by collectively managing multiple inverters.

*1 The connection interface of the GOT is RS-422.

S-pattern acceleration/deceleration

An S-pattern is maintained from the present frequency to the target frequency; therefore it is possible to reduce shock during acceleration/deceleration and prevent load shifts.





* The connection interface of the GOT is RS-422.

Application examples

Spinning

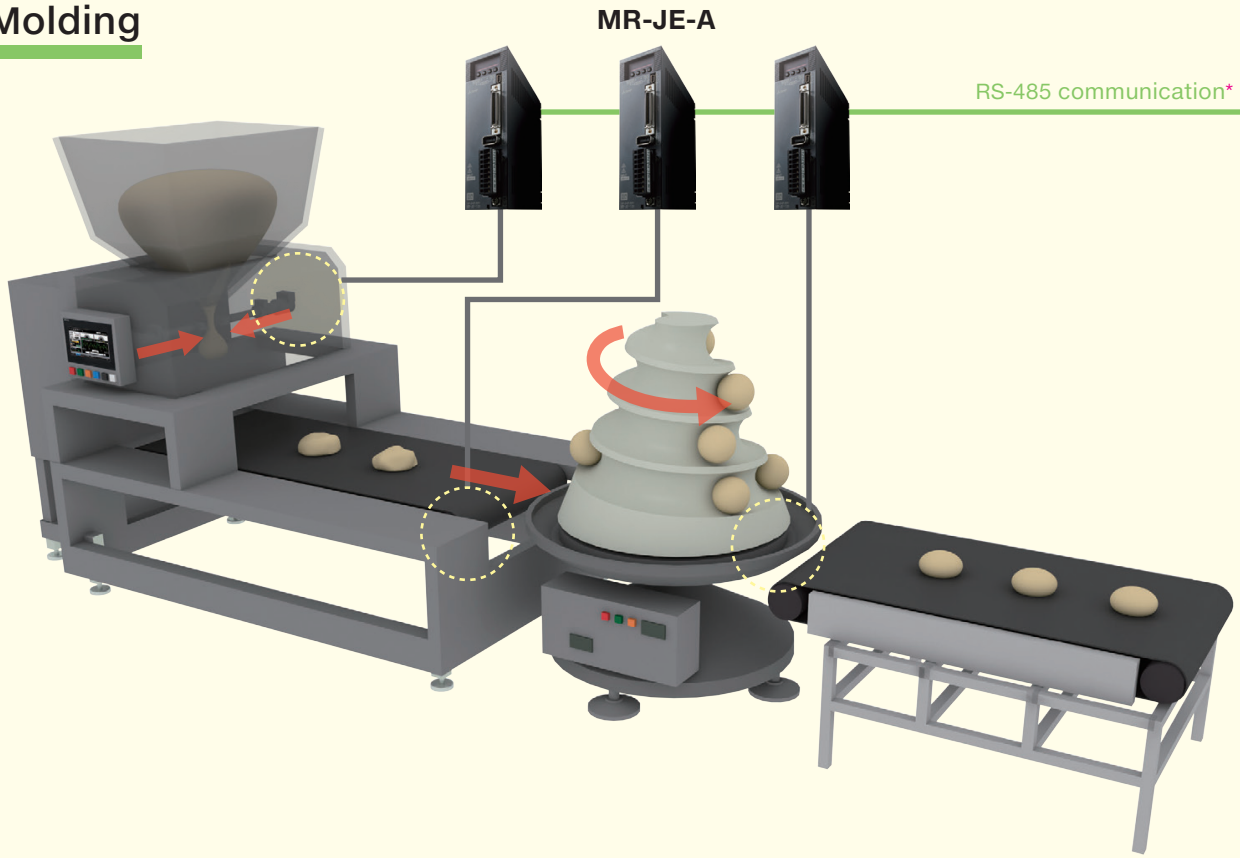
Recommended function: Traverse function
The traverse function, used for the traverse axis of spinning machine, prevents uneven winding or collapsing.

Fan and pump

Recommended function: PID function
Flow rate and air volume is controlled by an inverter. It is possible to regulate flow rate and air volume so that they stay at a pre-set level.

02 Production 1 Simple positioning control with

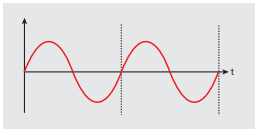
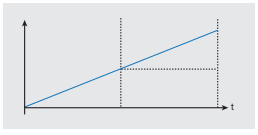
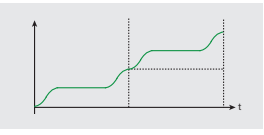
Molding



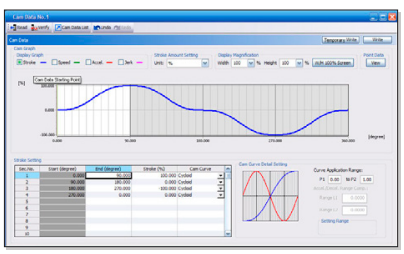
Recommended functions for each application — MR-JE-A

Simple cam function

Smooth conveyance and stopping are realized by cam control based on cam data. Cam operations include linear motion, reciprocating motion, and feeding motions, which can be selected according to your application.

Reciprocating motion	Linear motion	Feeding motion
Reciprocating cam	Ball screw / Rotary table	Belt conveyer / Rotary table
		
Reciprocating cam motion within a cam stroke range	Linear cam motion by one cycle	Cam motion which resets a cam reference position per cycle

MR Configurator2
Various patterns of cam data can be created easily.



MR Configurator2
Simple cam setting window

GOT and servo

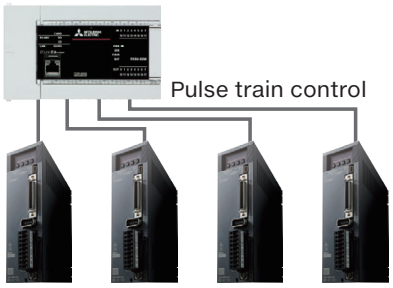
GOT SIMPLE

Point

Positioning function is built-in MR-JE-A. Directly connect to the GOT, and perform positioning and adjustments.

FX5 CPU module

FX5 CPU module has built-in high-speed I/O, and up to four MR-JE-A AC servos can be connected!



* The connection interface of the GOT is RS-422.

Recommended for simple positioning control!

GOT SIMPLE

AC Servo MELSERVO-JE
MR-JE-A

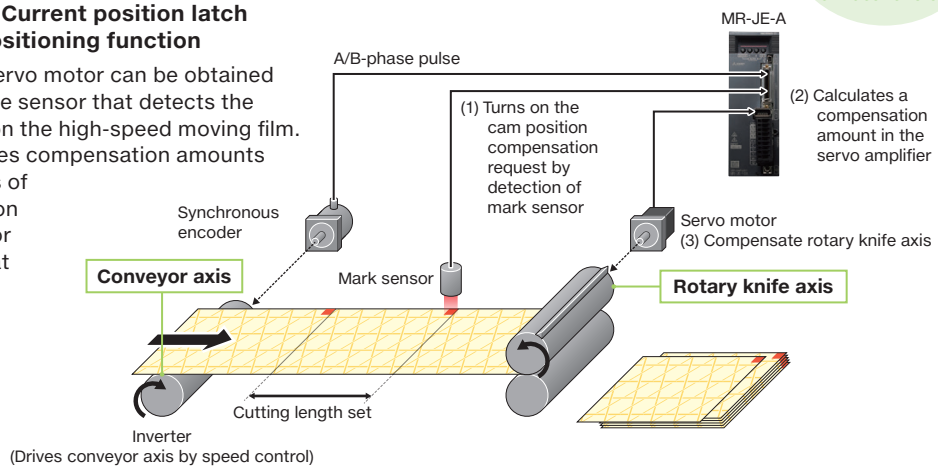
Application examples

MR-JE-A is an ideal choice

Rotary knife

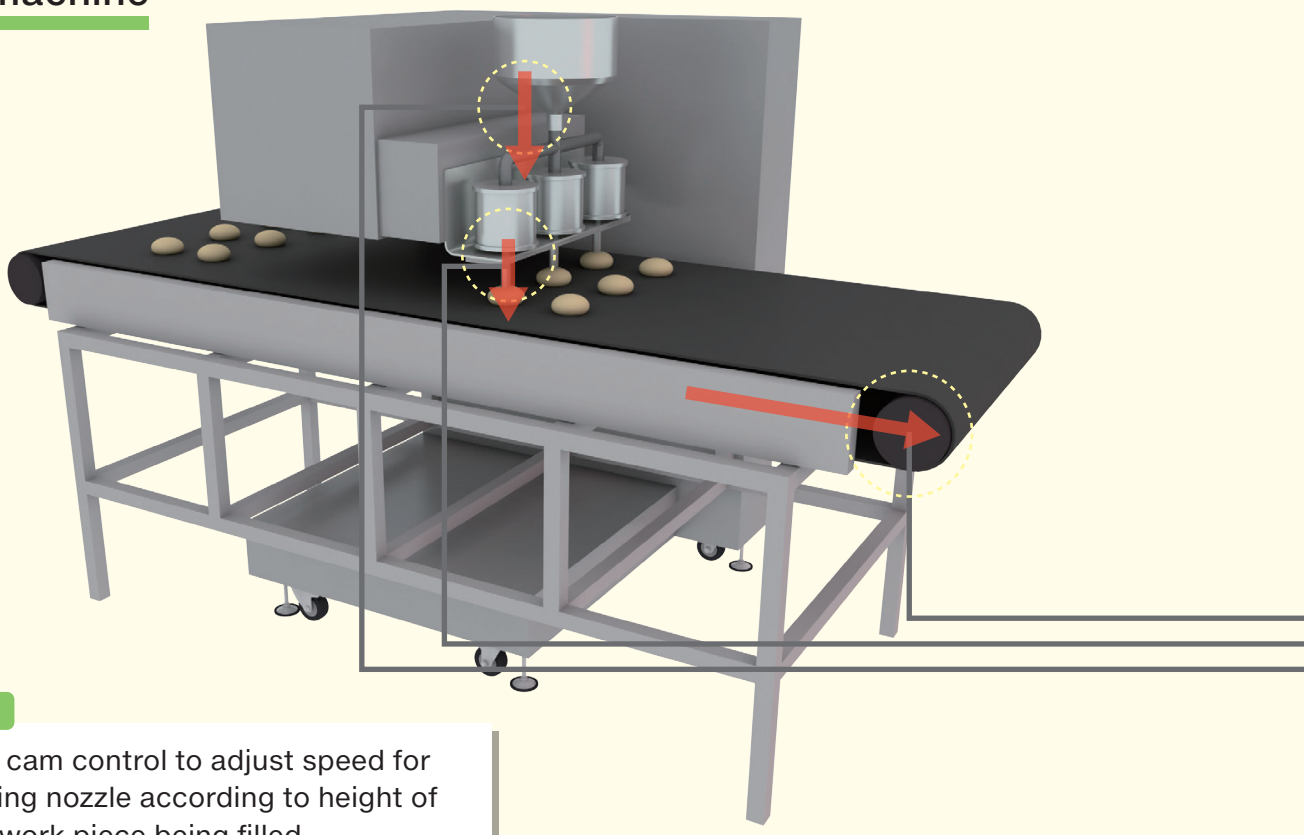
Recommended function: Current position latch function and interrupt positioning function

The actual position of the servo motor can be obtained based on the inputs from the sensor that detects the registration marks printed on the high-speed moving film. The servo amplifier calculates compensation amounts and corrects position errors of the rotary knife axis based on those inputs from the sensor so that the film can be cut at the set position.



02 Production 2 Smooth drive control with Simple

Filling machine



Point

Use cam control to adjust speed for raising nozzle according to height of the work piece being filled.

Recommended functions for each application

FX5 CPU module + Simple Motion module + MR-JE-B

Position, speed, torque control

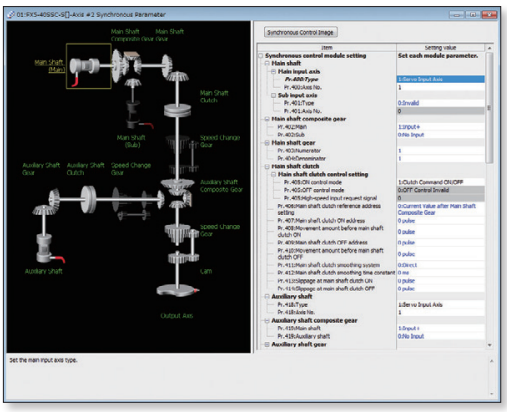
Smoothly change to torque control mode from position/speed control mode without a stop or a sudden change in speed and torque, and thus reduce load to a machine. This function is ideal for applications where control switches from position to torque such as tightening and press-fit control or insertion of a work piece, and cap or screw tightening.

Deterministic and synchronized communication

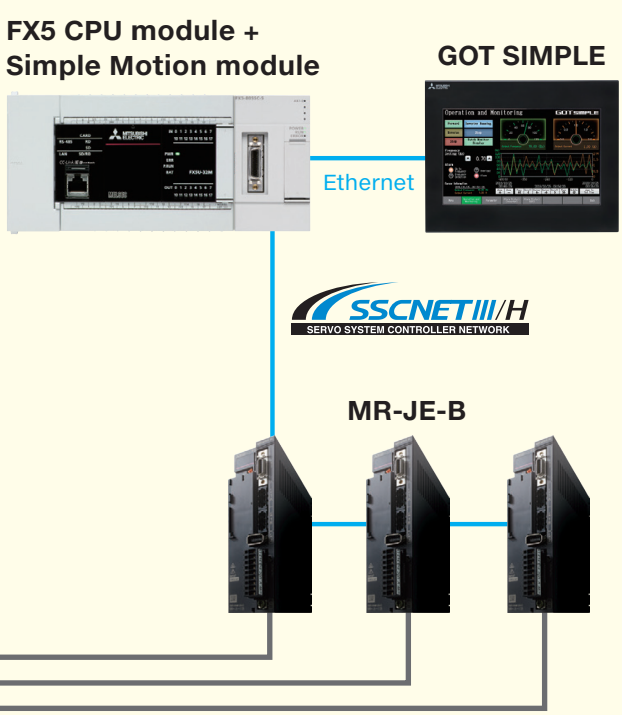
Complete deterministic and synchronized communication is achieved with SSCNET III/H, offering technical advantages in machines such as printing and food processing machines that require synchronous accuracy.

Synchronous control without program

Just set parameters using software to easily realize synchronous control instead of controlling mechanically with physical gears, shafts, speed change gears or cams.



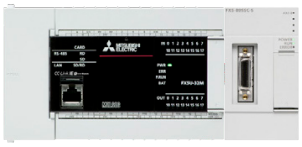
Motion and servo



Point

Compatible with fiber optic network "SSCNET III/H", which accelerates system responsiveness.

Recommended for smooth drive control!



Programmable Controller
MELSEC iQ-F Series
FX5 CPU module + Simple Motion module

AC Servo MELSERVO-JE
MR-JE-B

Application examples — FX5 CPU module + Simple Motion module +

MR-JE-B is an ideal choice

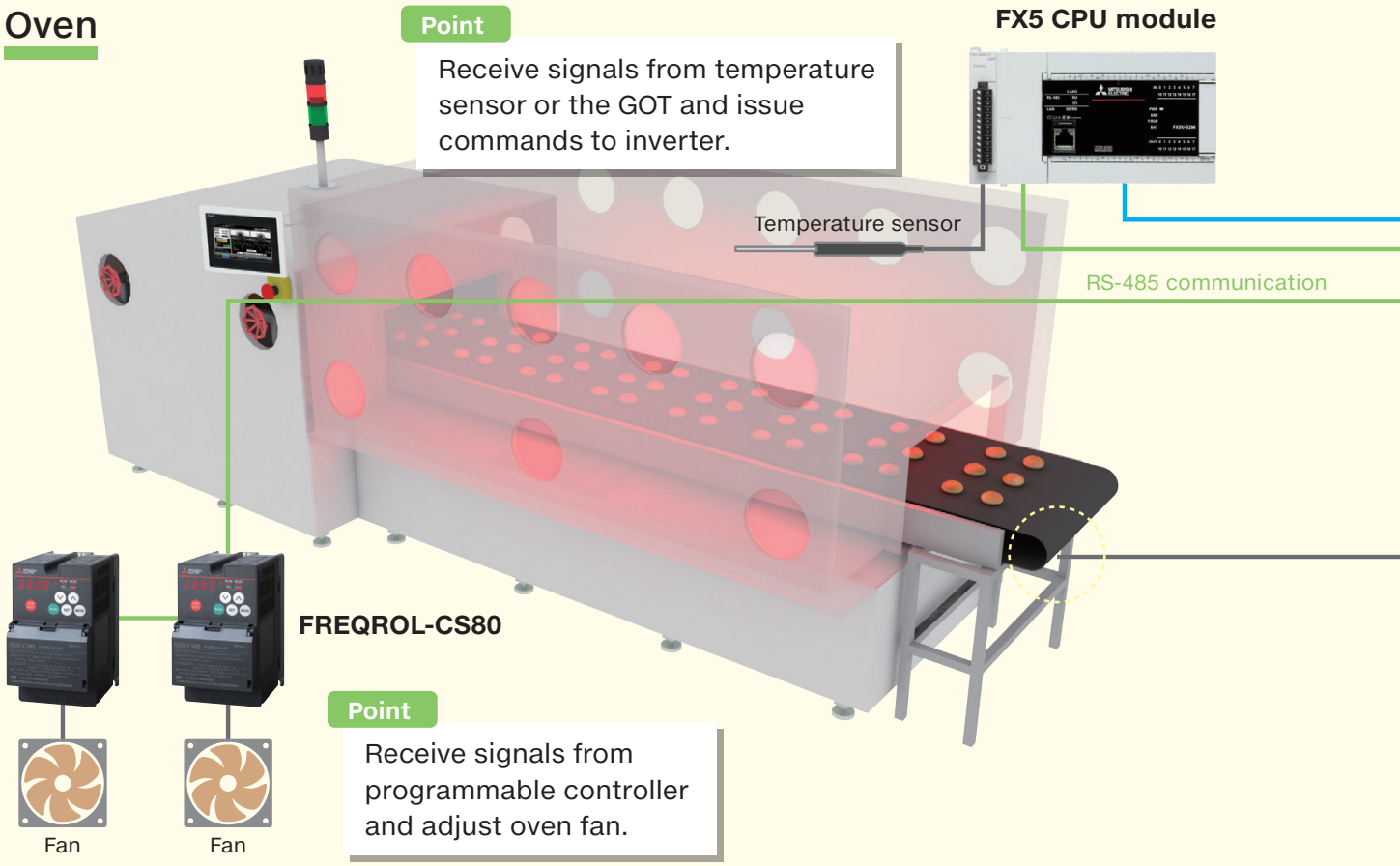
Unwinders and rewinders

SSCNET III/H allows configuration of a multi-axis synchronous control system even for unwinders and rewinders with multiple axes. For machines with a machining axis, further high-level synchronous control system is possible by using cam control and advanced synchronous control.

Simplified machine tools

In positioning operation of XY table, the workpiece can be processed with high quality by using machine resonance suppression filter that suppresses machine vibration and lost motion compensation function that suppresses quadrant protrusion.

02 Production 3 Connectivity with Mitsubishi Electric

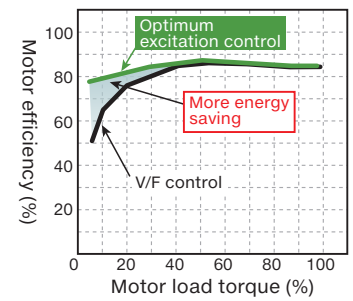


Recommended functions for each application

Optimum excitation control

FREQROL-CS80

This control enables the motor to perform with optimum efficiency. More energy saving is possible in applications with variable load torque characteristic such as fan and pump.

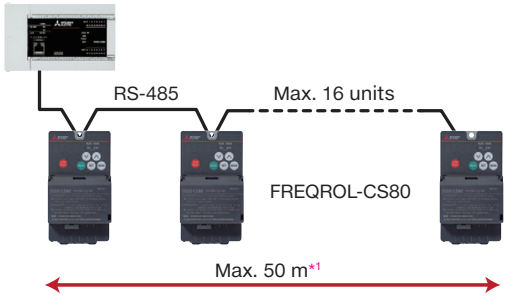


[Comparison of Mitsubishi Electric products]

Inverter communication commands

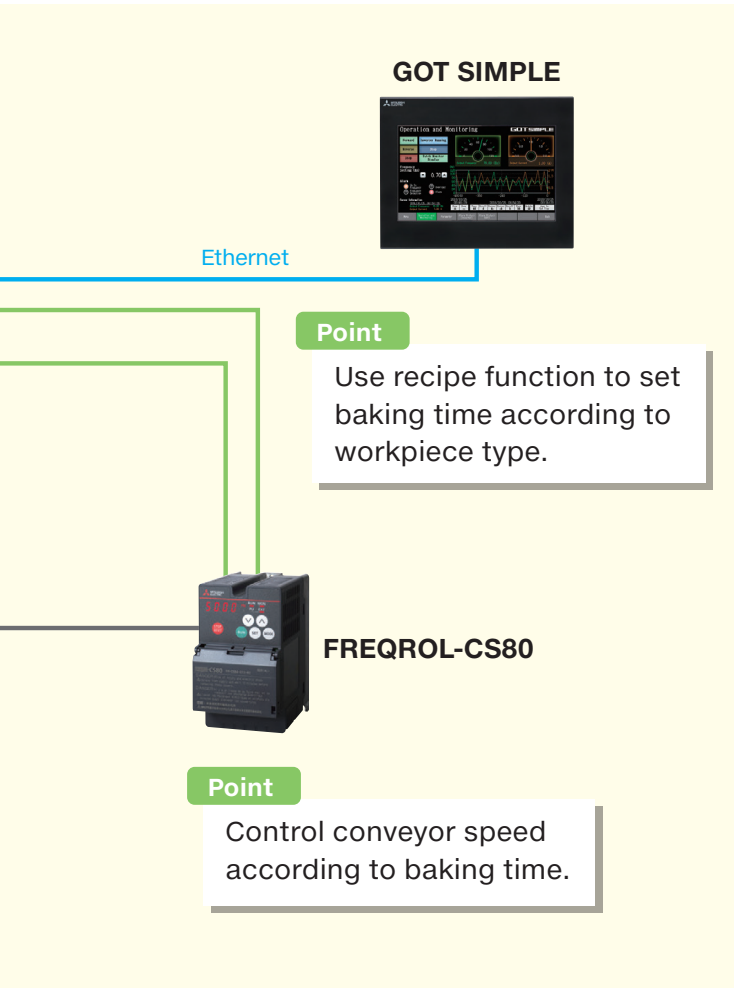
FX5 CPU

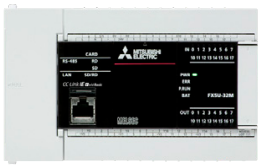
Dedicated instructions for Mitsubishi Electric inverter protocol and communication control are built in FX5 CPU module. Connecting an inverter enables simple control of inverter.



*1 For built-in RS-485 port. 1200 m when configured with FX5-485ADP.

industrial devices for easy automation





Programmable Controller
MELSEC iQ-F Series
FX5 CPU module

Inverter
FREQROL-CS80

Application examples

Fountain

Recommended functions: General-purpose magnetic flux vector control, brake transistor built-in connection

A variety of fountain displays are possible by connecting a brake resistor which allows high starting torque and improved braking efficiency during deceleration under general-purpose magnetic flux vector control.

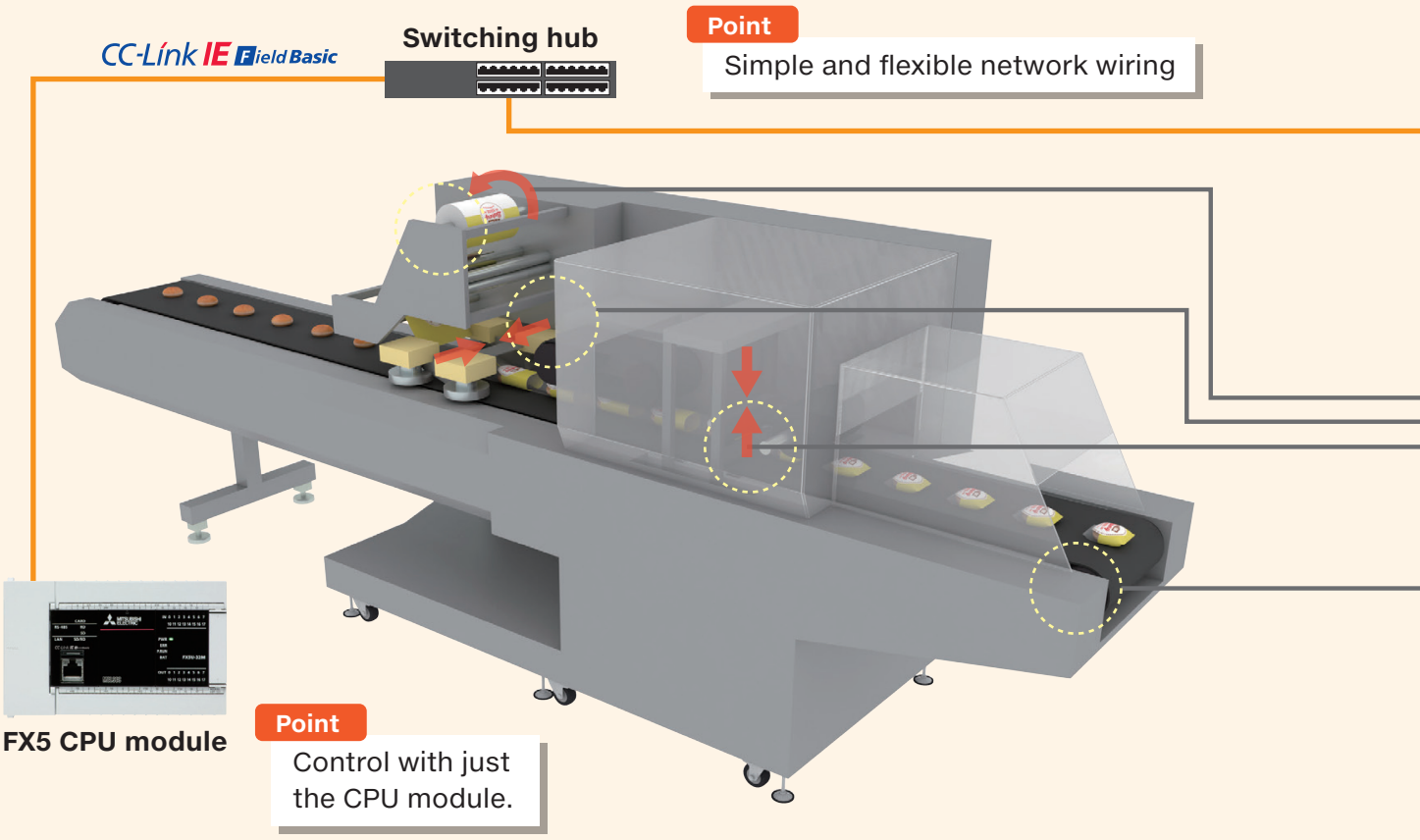
Mixing

Recommended function: Analog I/O (with alarm output) control

The FX5U CPU module is equipped with analog input and analog output. No program is required; just set the parameters to start using it.

03 Packaging

Easily build a network with



Recommended functions for each application — MR-JE-C

Point table method

Perform positioning operation with the point table method or the indexer method. With the point table method, just set the point table No. and turn on the start signal, and then the positioning operation will start. A continuous operation of the next point table is also possible without stopping. In the indexer method, the travel amount is automatically calculated based on the number of stations set in the parameter.

<MR-JE Series servo amplifier lineup*1>

●: Compatible —: Not compatible

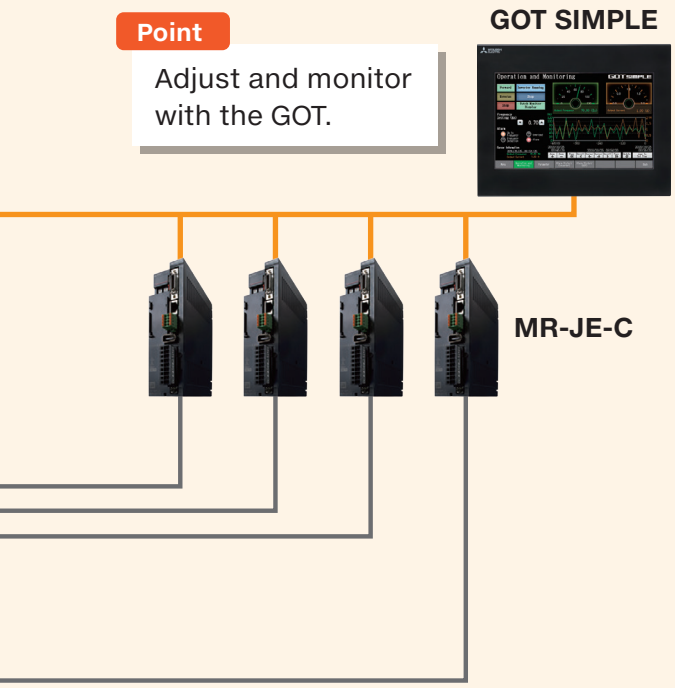
Model	Command interface					
	SSCNET III/H	CC-Link IE Field Basic	MODBUS®/TCP	MODBUS®/RTU	Pulse train	Analog voltage
MR-JE-C	—	●	●	●	●	●
MR-JE-B	●	—	—	—	—	—
MR-JE-A	—	—	—	●	●	●

*1 Functions compatible with the latest servo amplifier version are listed (as of July 2019). For the details on function compatibility according to the version, please refer to the relevant product manual.

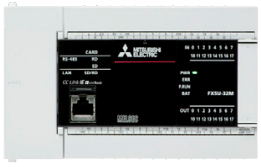
Mitsubishi Electric AC Servo

Point

Adjust and monitor with the GOT.



Recommended for building networks!



Programmable Controller
MELSEC iQ-F Series
FX5 CPU module

AC Servo
MELSERVO-JE
MR-JE-C

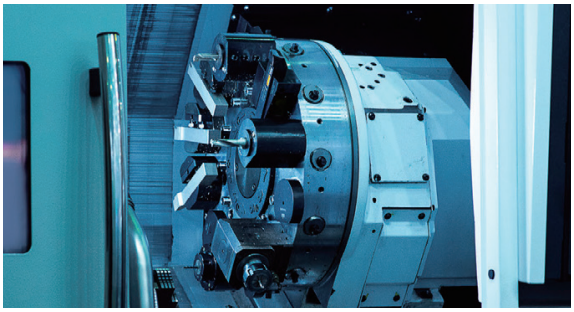
Application examples

MR-JE-C is an ideal choice

Packaging

Simple synchronous operations including horizontal, vertical, and rotational movements are possible with a start signal to all axes via cyclic transmission. This function can be used to easily build a multi-axis system for packaging, etc.

Machining center



Recommended function: Indexer method

Positioning operation is performed by specifying equally divided stations (up to 255 stations). The travel distance is calculated automatically based on the number of stations and the number of gear teeth on the motor and machine sides set in parameters.

HMI lineup

GOT2000 Series

GT27

Advanced model with multi-touch gesture functions

Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field*1 | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET | Multi-touch gesture

*1 The CC-Link IE Field Network communication unit and GOT set is also available.

15 inch

TFT 65536 colors | AC | DC

XGA 1024×768	GT2715-XTBA GT2715-XTBD

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600	GT2712-STBA GT2712-STBD GT2712-STWA [White model] GT2712-STWD [White model]

10.4 inch

TFT 65536 colors | AC | DC

SVGA 800×600	GT2710-STBA GT2710-STBD
VGA 640×480	GT2710-VTBA GT2710-VTBD GT2710-VTWA [White model] GT2710-VTWD [White model]

GT25

High performance, cost efficient, mid-range model

Ethernet | RS-232 | RS-422/485 | CC-Link IE Control*2 | CC-Link IE Field*1*2 | CC-Link IE Field Basic | CC-Link*2 | Bus*2 | MELSECNET*2

*1 The CC-Link IE Field Network communication unit and GOT set is also available. *2 Not supported by GT2505.

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600	GT2512-STBA GT2512-STBD

10.4 inch

TFT 65536 colors | AC | DC

VGA 640×480	GT2510-VTBA GT2510-VTBD GT2510-VTWA [White model] GT2510-VTWD [White model]

8.4 inch

TFT 65536 colors | AC | DC

VGA 640×480	GT2508-VTBA GT2508-VTBD GT2508-VTWA [White model] GT2508-VTWD [White model]

GT25 Wide

GOT2000 widescreen expands your view

Ethernet (2 ports) | RS-232 | RS-422/485 | CC-Link IE Field Basic | Sound output (built-in)

10.1 inch

TFT 65536 colors | DC

WXGA 1280×800	GT2510-WXTBD GT2510-WXTSD

7 inch

TFT 65536 colors | DC

WVGA 800×480	GT2507-WTBD GT2507-WTSD

GT25 Rugged

Ethernet (2 ports) | RS-232 | RS-422/485 | CC-Link IE Field Basic | Sound output (built-in)

7 inch

TFT 65536 colors | DC

WVGA 800×480	GT2507T-WTSD

GT21 Wide

Suitable for a wide range of applications

Ethernet | RS-232 | RS-422/485 | CC-Link IE Field Basic

7 inch

TFT 65536 colors | DC

WVGA 800×480	GT2107-WTBD GT2107-WTSD

GT21

Compact models with basic functions

Ethernet*1 | RS-232*1 | RS-422/485*1 | CC-Link IE Field Basic*2

*1 Supported interfaces vary depending on the model. Please refer to descriptions in [ ] after the model.
*2 Supported only by the models equipped with an Ethernet port.

4.3 inch

TFT 65536 colors | DC

480×272	GT2104-RTBD [Ethernet, RS-232, RS-422/485]

3.8 inch

TFT mono-chrome | DC

5-color LED

320×128	GT2103-PMBD [Ethernet, RS-422/485] GT2103-PMBDS [RS-232, RS-422/485] GT2103-PMBDS2 [RS-232×2 ch] GT2103-PMBLS [RS-422] 5 V DC type

For the status of conforming to various standards and laws, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

MELIPC Series

Panel computer with Windows® OS

MI3000

Ethernet (3 ports) | RS-232 | RS-422/485 | DisplayPort | Sound output (built-in)

21.5 inch/ 15 inch

TFT 65536 colors | DC

Full HD 1920×1080	MI3321G-W
XGA 1024×768	MI3315G-W

Multimedia*2 | Video/RGB*2 | Sound output | External I/O

*2 Not supported by GT2705.

8.4 inch

TFT 65536 colors | AC | DC

SVGA 800×600	GT2708-STBA GT2708-STBD
VGA 640×480	GT2708-VTBA GT2708-VTBD

5.7 inch

TFT 65536 colors | AC | DC

VGA 640×480	GT2705-VTBD

GT25 Handy

HMI functionality in the palm of your hand

Ethernet | RS-232 | RS-422/485*1 | CC-Link IE Field Basic | CC-Link

*1 GT2505HS supports RS-422 only.

Sound output*2 | External I/O*2

5.7 inch

TFT 65536 colors | DC

VGA 640×480	GT2505-VTBD

6.5 inch

TFT 65536 colors | DC

VGA 640×480	GT2506HS-VTBD

5.7 inch

TFT 65536 colors | DC

VGA 640×480	GT2505HS-VTBD

GT25 Open frame

A new style of GOT2000

Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET | Sound output | External I/O

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600	GT2512F-STNA GT2512F-STND

10.4 inch

TFT 65536 colors | AC | DC

VGA 640×480	GT2510F-VTNA GT2510F-VTND

8.4 inch

TFT 65536 colors | AC | DC

VGA 640×480	GT2508F-VTNA GT2508F-VTND

SoftGOT

GOT2000 compatible software

65536 colors

USB port license key

GT SoftGOT2000 Version1

GT SoftGOT2000 is an HMI software that allows GOT2000 functions to operate on a personal computer or panel computer. Various industrial devices can be connected and monitored. Resolution: 640 to 1920 × 480 to 1200

* A separate license key must be mounted during use.

GOT SIMPLE Series

GS21

Simple model having excellent cost performance

Ethernet | RS-232 | RS-422 | CC-Link IE Field Basic

10 inch

TFT 65536 colors | DC

WVGA 800×480	GS2110-WTBD

7 inch

TFT 65536 colors | DC

WVGA 800×480	GS2107-WTBD

Function list

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.

●: Supported —: Not supported

Category		Function name		Necessary devices*1	GT27	GT25	GT25 Wide	GT25 Rugged
Hardware specifications	Screen size	15"			●	—	—	—
		12.1"			●	●	—	—
		10.4"			●	●	—	—
		10.1" Wide/10" Wide			—	—	●	—
		8.4"			●	●	—	—
		7" Wide			—	—	●	●
		6.5"			—	—	—	—
		5.7"			●	●	—	—
		4.3"			—	—	—	—
		3.8"			—	—	—	—
	Resolution	WXGA 1280×800			—	—	●	—
		XGA 1024×768			●	—	—	—
		SVGA 800×600			●	●	—	—
		WVGA 800×480			—	—	●	●
		VGA 640×480			●	●	—	—
		Other			—	—	—	—
	Color	65536 colors			●	●	●	●
		Monochrome (black/white) 32 shade grayscale			—	—	—	—
	Touch panel simultaneous press (2 points)				●	—	—	—
	Human sensor				●*10	—	—	—
	Memory	Memory for storage (ROM)			Other than below: 57 MB GT2705: 32 MB	32 MB	32 MB	32 MB
		Memory for operation (RAM)			Other than below: 128 MB GT2705: 80 MB	80 MB	128 MB	128 MB
	Interface	RS-232			●	●	●	●
		RS-422/485			●	●	●	●
		Ethernet		(Ethernet communication unit)	● 2 ports by installing communication unit	● 2 ports by installing communication unit*17	● 2 ports as standard	● 2 ports as standard
		USB host			●	●	●	●
		USB device			●	●	●	●
		SD memory card interface			●	●	●	●
		Extension interface, Side interface, Wireless LAN communication unit interface		Communication units, option units	●*11	●*11*17	●*11	●*11
Screen design	Figure/object functions	Figure			●	●	●	●
		Logo text			●	●	●	●
		Touch switch			●	●	●	●
		Lamp			●	●	●	●
		Numerical display, Numerical input			●	●	●	●
		Text display, Text input			●	●	●	●
		Date display, Time display		(Battery)	●	●	●	●
		Comment display			●	●	●	●
		Parts display		(SD memory card or USB memory)	●	●	●	●
		Parts movement		(SD memory card or USB memory)	●	●	●	●
		Historical data list display		(SD memory card or USB memory)	●	●	●	●
		Simple alarm display			●	●	●	●
		System alarm display			●	●	●	●
		Alarm display (user)		(SD memory card or USB memory, battery)	●	●	●	●
		Alarm display (system)		(SD memory card or USB memory, battery)	●	●	●	●
		Recipe display (record list)			●	●	●	●
		Line graph			●	●	●	●
		Trend graph			●	●	●	●
		Bar graph			●	●	●	●
		Statistic bar graph			●	●	●	●
		Statistic pie graph			●	●	●	●
		Scatter graph			●	●	●	●
		Historical trend graph		(SD memory card or USB memory)	●	●	●	●
		Graphical meter			●	●	●	●
		Level			●	●	●	●
		Panelmeter			●	●	●	●
		Slider			●	●	●	●
		Document display		SD memory card	●	●	●	●
		Script parts			●	●	●	●
	Functions performed on background of GOT	Logging		(SD memory card or USB memory, battery)	●	●	●	●
		Recipe		(SD memory card or USB memory, battery)	●	●	●	●
		Device data transfer			●	●	●	●
		Trigger action			●	●	●	●
		Time action		(SD memory card or USB memory)	●	●	●	●
		Hard copy	File output	(SD memory card or USB memory)	●	●	●	●
			Serial printer output		●	●	●	●
			Ethernet printer output		●	●	●	●
			PictBridge printer output	Printer unit	●	●*17	—	—
		Project script, Screen script			●	●	●	●
		Object script			●	●	●	●

*1 Necessary units when using GT27, GT25, GT25 wide, GT25 rugged, GT25 handy, GT21, GT21 wide, or GS21 models are shown. Parenthesized devices are required depending on conditions of use.

*2 Data is output to the printer that is recognized by the personal computer.

*3 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers.

*4 Only the GOTs with SVGA or higher resolution are supported.

*5 Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: utility screen, monitor and data management screens that are displayed from the utility screen (sequence program monitor, etc.), video camera images in the multimedia and video display functions. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.

*6 Excluding GT2103-PMBLS.

*7 GT2104-RTBD only.

*8 Excluding GT2705-VTBD.

*9 To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD, the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT2000 Series.

*10 GT2715-XTBA, GT2715-XTBD, GT2712-STBA, GT2712-STBD, GT2712-STWA, GT2712-STWD only.

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category		Function name	Necessary devices*1	GT25 Handy	GT21	GT21 Wide	GS21	GT SoftGOT2000
Hardware specifications	Screen size	15"		—	—	—	—	
		12.1"		—	—	—	—	
		10.4"		—	—	—	—	
		10.1" Wide/10" Wide		—	—	—	●	
		8.4"		—	—	—	—	
		7" Wide		—	—	●	●	
		6.5"		●	—	—	—	
		5.7"		●	—	—	—	
		4.3"		—	●	—	—	
		3.8"		—	●	—	—	
	Resolution	WXGA 1280×800		—	—	—	—	Flexible resolution 640 to 1920 × 480 to 1200
		XGA 1024×768		—	—	—	—	
		SVGA 800×600		—	—	—	—	
		WVGA 800×480		—	—	●	●	
		VGA 640×480		●	—	—	—	
		Other		—	GT2104-R: 480×272 GT2103-P: 320×128	—	—	
	Color	65536 colors		●	●	●	●	●
		Monochrome (black/white) 32 shade grayscale		—	●	—	—	—
	Touch panel simultaneous press (2 points)			—	—	—	—	—
	Human sensor			—	—	—	—	—
	Memory	Memory for storage (ROM)		32 MB	GT2104-R: 9 MB GT2103-P: 3 MB	15 MB	9 MB	57 MB
		Memory for operation (RAM)		80 MB	—	—	—	—
	Interface	RS-232		●	●	●	●	●*12
		RS-422/485		● GT2505HS supports RS-422 only	●	●	● RS-422 only	●*12
		Ethernet	(Ethernet communication unit)	●	●	●	●	●*11
		USB host		●	—	●	—	●*13
		USB device		●	●	●	●	
		SD memory card interface		●	●*14	●	●	●*13
		Extension interface, Side interface, Wireless LAN communication unit interface	Communication units, option units	—	—	—	—	●*11
Screen design	Figure/object functions	Figure		●	●	●	●	●
		Logo text		●	●	●	●	●
		Touch switch		●	●	●	●	●
		Lamp		●	●	●	●	●
		Numerical display, Numerical input		●	●	●	●	●
		Text display, Text input		●	●	●	●	●
		Date display, Time display	(Battery)	●	●	●	●	●
		Comment display		●	●	●	●	●
		Parts display	(SD memory card or USB memory)	●	●*16	●	●	●
		Parts movement	(SD memory card or USB memory)	●	●*16	●	●	●
		Historical data list display	(SD memory card or USB memory)	●	●*16	●	●	●
		Simple alarm display		●	●	●	●	●
		System alarm display		●	—	—	—	●
		Alarm display (user)	(SD memory card or USB memory, battery)	●	●*16	●	●	●
		Alarm display (system)	(SD memory card or USB memory, battery)	●	—	—	—	●
		Recipe display (record list)		●	●	●	●	●
		Line graph		●	●	●	●	●
		Trend graph		●	●	●	●	●
		Bar graph		●	●	●	●	●
		Statistic bar graph		●	●	●	●	●
		Statistic pie graph		●	●	●	●	●
		Scatter graph		●	●	●	●	●
		Historical trend graph	(SD memory card or USB memory)	●	●*16	●	●	●
		Graphical meter		●	●	●	●	●
		Level		●	●	●	●	●
		Panelmeter		●	●	●	●	●
		Slider		●	●	●	●	●
		Document display	SD memory card	●	—	—	—	●
		Script parts		●	●	●	●	●
	Functions performed on background of GOT	Logging	(SD memory card or USB memory, battery)	●	●*6	●	●	●
		Recipe	(SD memory card or USB memory, battery)	●	●*16	●	●	●
		Device data transfer		●	●	●	●	●
		Trigger action		●	●	●	●	●
		Time action	(SD memory card or USB memory)	●	●	●	●	●
		Hard copy: File output	(SD memory card or USB memory)	●	●*6	●	●	●
		Hard copy: Serial printer output		—	●*6	●	●	●*2
		Hard copy: Ethernet printer output		●	●*15	●	●	—
		Hard copy: PictBridge printer output	Printer unit	—	—	—	—	●*2
		Project script, Screen script		●	●	●	●	●
		Object script		●	—	—	—	●

*11 For the applicable communication units and option units, please refer to the relevant product manual.
*12 Use the standard interface of the personal computer.
*13 When using functions that require a USB memory or SD memory card, a virtual drive in the personal computer is used.
*14 GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2 require an SD memory card unit (GT21-03SDCD) separately. GT2103-PMBLS does not allow for SD memory cards.
*15 GT2104-RTBD, GT2103-PMBD only.
*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.
*17 Excluding GT2505-VTBD.
*18 GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit is not required.
*19 GT2505HS-VTBD supports the function with Ethernet connection only.

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.

●: Supported —: Not supported

Category		Function name	Necessary devices*1	GT27	GT25	GT25 Wide	GT25 Rugged
Screen design	Functions used with peripheral devices	Barcode function		●	●	●	●
		RFID function		●	●	●	●
		GOT Mobile function	License, (SD memory card)	●	●	●	●
		VNC server function	License	●	●	●	●
		Remote personal computer operation function (Ethernet)	License	●	●	●	●
		Remote personal computer operation function (serial)	RGB input unit or Video/RGB input unit	●*8	—	—	—
		Video display function	Video input unit or Video/RGB input unit	●*8	—	—	—
		RGB display function	RGB input unit or Video/RGB input unit	●*8	—	—	—
		Multimedia function	Multimedia unit, CF card	●*8	—	—	—
		External I/O function	External I/O unit	●	●*17	—	—
		Operation panel function	External I/O unit	●	●*17	—	—
		Video output function: HDMI output	Digital video output unit	●*8	—	—	—
		Video output function: RGB output	RGB output unit	●*8	—	—	—
		Report function: File output	(SD memory card or USB memory)	●	●	●	●
		Report function: Serial printer output	(SD memory card or USB memory)	●	●	●	●
		Report function: Ethernet printer output	(SD memory card or USB memory)	●	●	●	●
		Report function: PictBridge printer output	SD memory card or USB memory, printer unit	●	●*17	—	—
		Sound output function	Sound output unit*18	●	●*17	●*18	●*18
		Server function, Client function		●	●	●	●
		Mail send function		●	●	●	●
		Network drive function		●	●	●	●
		FTP server function	(SD memory card or USB memory)	●	●	●	●
		File transfer function (FTP transfer)	SD memory card or USB memory	●	●	●	●
		File transfer function (GOT internal transfer)	SD memory card or USB memory	●	●	●	●
		MES interface function	License, (SD memory card)	●	●	●	●
		Wireless LAN function	Wireless LAN communication unit	●	●*17	●	●
		USB mouse, USB keyboard		●	●	●	●
GOT functions		Base screen		●	●	●	●
		Overlap window		●	●	●	●
		Superimpose window		●	●	●	●
		Dialog window		●	●	●	●
		Mobile screen		●	●	●	●
		Key window		●	●	●	●
		Language switching		●	●	●	●
		System information		●	●	●	●
		Operator authentication function	(SD memory card or USB memory)	●	●	●	●
		Operation log	SD memory card or USB memory	●	●	●	●
		Startup logo		●	●	●	●
		KANA KANJI conversion		●	●	●	●
		FA transparent		●	●	●	●
		SoftGOT-GOT link	License key	●	●	●	●
		Backup/Restoration	SD memory card or USB memory	●	●	●	●
		Multi-channel function		●*9 4 channels (Up to 3 units)	● 4 channels (Up to 3 units*17)	● 4 channels (No units can be mounted.)	● 4 channels (No units can be mounted.)
		Station No. switching		●	●	●	●
		GOT network interaction		●	●	●	●
		Screen gesture function		●	—	—	—
		Object gesture function		●	—	—	—
		Security key authentication function		●	●	●	●
		IP filter function		●	●	●	●
		File manager	(SD memory card or USB memory)	●	●	●	●
		Vertical display*5		● (Rotate 90° to left)	● Other than below: rotate 90° to left GT2505: rotate 90° to right	● (Rotate 90° to left)	● (Rotate 90° to left)
Maintenance functions		Device monitor	(SD memory card or USB memory)	●	●	●	●
		Sequence program monitor (iQ-R ladder)	SD memory card or USB memory	●	●	●	●
		Sequence program monitor (Ladder)	SD memory card or USB memory	●	●	●	●
		Sequence program monitor (SFC)	SD memory card or USB memory	●	●	●	●
		Network monitor		●	●	●	●
		CC-Link IE Field Network diagnostics		●	●	●	●
		Intelligent module monitor		●	●	●	●
		Drive recorder	(SD memory card or USB memory)	●	●	●	●
		Servo amplifier graph	(SD memory card or USB memory)	●	●	●	●
		Motion program editor		●*4	●*4	—	—
		Motion program I/O	SD memory card or USB memory	●*4	●*4	—	—
		Servo amplifier monitor		●	●	●	●
		R motion monitor		●	●	●	●
		Q motion monitor		●	●	●	●
		Motion SFC monitor	SD memory card or USB memory	●	●	●	●
		CNC monitor 2		●	●	—	—
		CNC monitor		●*4	●*4	—	—
		CNC data I/O	SD memory card or USB memory	●*4	●*4	—	—
		CNC machining program edit		●*4	●*4	—	—
		Log viewer	(SD memory card or USB memory)	●	●	●	●
		FX list editor		●	●	—	—
		FX ladder monitor		●	●	●	●
		iQSS utility	SD memory card or USB memory	●	●	●	●
		System launcher		●	●	●	●
		System launcher (servo network)		●	●	●	●
		MELSEC-L troubleshooting		●	●	●	●

*1 Necessary units when using GT27, GT25, GT25 wide, GT25 rugged, GT25 handy, GT21, GT21 wide, or GS21 models are shown. Parenthesized devices are required depending on conditions of use.

*2 Data is output to the printer that is recognized by the personal computer.

*3 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers.

*4 Only the GOTs with SVGA or higher resolution are supported.

*5 Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: utility screen, monitor and data management screens that are displayed from the utility screen (sequence program monitor, etc.), video camera images in the multimedia and video display functions. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.

*6 Excluding GT2103-PMBLS.

*7 GT2104-RTBD only.

*8 Excluding GT2705-VTBD.

*9 To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD, the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT2000 Series.

*10 GT2715-XTBA, GT2715-XTBD, GT2712-STBA, GT2712-STBD, GT2712-STWA, GT2712-STWD only.

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category		Function name	Necessary devices*1	GT25 Handy	GT21	GT21 Wide	GS21	GT SoftGOT2000
Screen design	Functions used with peripheral devices	Barcode function		—	●*6	●	●	●
		RFID function		—	●*6	●	●	●
		GOT Mobile function	License, (SD memory card)	●	—	—	—	—
		VNC server function	License	●	—	●	—	—
		Remote personal computer operation function (Ethernet)	License	●	—	—	—	—
		Remote personal computer operation function (serial)	RGB input unit or Video/RGB input unit	—	—	—	—	—
		Video display function	Video input unit or Video/RGB input unit	—	—	—	—	—
		RGB display function	RGB input unit or Video/RGB input unit	—	—	—	—	—
		Multimedia function	Multimedia unit, CF card	—	—	—	—	—
		External I/O function	External I/O unit	—	—	—	—	—
		Operation panel function	External I/O unit	—	—	—	—	●
		Video output function: HDMI output	Digital video output unit	—	—	—	—	—
		Video output function: RGB output	RGB output unit	—	—	—	—	—
		Report function: File output	(SD memory card or USB memory)	●	—	—	—	—
		Report function: Serial printer output	(SD memory card or USB memory)	—	●*6	●	●	●*3
		Report function: Ethernet printer output	(SD memory card or USB memory)	●	●*15	●	●	—
		Report function: PictBridge printer output	SD memory card or USB memory, printer unit	—	—	—	—	●*3
		Sound output function	Sound output unit*18	—	—	—	—	●
		Server function, Client function		●	—	—	—	—
		Mail send function		●	—	—	—	●
		Network drive function		●	—	—	—	●
		FTP server function	(SD memory card or USB memory)	●	●*15	●	●	—
		File transfer function (FTP transfer)	SD memory card or USB memory	●	●*15	●	●	—
		File transfer function (GOT internal transfer)	SD memory card or USB memory	●	—	—	—	—
		MES interface function	License, (SD memory card)	●	—	—	—	—
		Wireless LAN function	Wireless LAN communication unit	—	—	—	—	—
		USB mouse, USB keyboard		●	—	●	—	●
GOT functions		Base screen		●	●	●	●	●
		Overlap window		●	●	●	●	●
		Superimpose window		●	●	●	●	●
		Dialog window		●	●	●	●	●
		Mobile screen		●	—	—	—	—
		Key window		●	●	●	●	●
		Language switching		●	●	●	●	●
		System information		●	●	●	●	●
		Operator authentication function	(SD memory card or USB memory)	●	●*16	●	●	●
		Operation log	SD memory card or USB memory	●	—	—	—	●
		Startup logo		●	●	●	●	●
		KANA KANJI conversion		●	—	—	—	●
		FA transparent		●	●	●	●	—
		SoftGOT-GOT link	License key	●	—	—	—	●
		Backup/Restoration	SD memory card or USB memory	●	●*6	●	●	—
		Multi-channel function		●*19 4 channels (No units can be mounted.)	●*6 2 channels (No units can be mounted.)	● 2 channels (No units can be mounted.)	● 2 channels (No units can be mounted.)	—
		Station No. switching		●	●	●	●	●
		GOT network interaction		●	—	—	—	●
		Screen gesture function		—	—	—	—	—
		Object gesture function		—	—	—	—	—
		Security key authentication function		●	—	—	—	—
		IP filter function		●	●	●	●	—
		File manager	(SD memory card or USB memory)	●	—	—	—	—
		Vertical display*5		—	● (Rotate 90° to right)	● (Rotate 90° to left)	● (Rotate 90° to left)	—
Maintenance functions		Device monitor	(SD memory card or USB memory)	●	●	●	●	—
		Sequence program monitor (iQ-R ladder)	SD memory card or USB memory	●	—	—	—	—
		Sequence program monitor (Ladder)	SD memory card or USB memory	●	—	—	—	—
		Sequence program monitor (SFC)	SD memory card or USB memory	●	—	—	—	—
		Network monitor		●	—	—	—	—
		CC-Link IE Field Network diagnostics		●	—	—	—	—
		Intelligent module monitor		●	—	—	—	—
		Drive recorder	(SD memory card or USB memory)	●	—	—	—	—
		Servo amplifier graph	(SD memory card or USB memory)	●	—	—	—	—
		Motion program editor		—	—	—	—	—
		Motion program I/O	SD memory card or USB memory	—	—	—	—	—
		Servo amplifier monitor		●	—	—	—	—
		R motion monitor		●	—	—	—	—
		Q motion monitor		●	—	—	—	—
		Motion SFC monitor	SD memory card or USB memory	●	—	—	—	—
		CNC monitor 2		●	—	—	—	—
		CNC monitor		—	—	—	—	—
		CNC data I/O	SD memory card or USB memory	—	—	—	—	—
		CNC machining program edit		—	—	—	—	—
		Log viewer	(SD memory card or USB memory)	●	—	—	—	—
		FX list editor		●	●*7	●	●	—
		FX ladder monitor		●	—	—	—	—
		iQSS utility	SD memory card or USB memory	●	—	—	—	—
		System launcher		●	—	—	—	—
		System launcher (servo network)		●	—	—	—	—
		MELSEC-L troubleshooting		●	—	—	—	—

*11 For the applicable communication units and option units, please refer to the relevant product manual.
*12 Use the standard interface of the personal computer.
*13 When using functions that require a USB memory or SD memory card, a virtual drive in the personal computer is used.
*14 GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2 require an SD memory card unit (GT21-03SDCD) separately. GT2103-PMBLS does not allow for SD memory cards.
*15 GT2104-RTBD, GT2103-PMBD only.
*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.
*17 Excluding GT2505-VTBD.
*18 GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit is not required.
*19 GT2505HS-VTBD supports the function with Ethernet connection only.

Interaction with various Mitsubishi Electric industrial devices

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

Programmable controller

MELSEC iQ-R series MELSEC iQ-F series



etc.

Servo

MITSUBISHI SERVO AMPLIFIERS & MOTORS MELSERVO

etc.

Inverter

etc.

Main connectable products (programmable controllers) of other companies

Manufacturer	Series/Model name		Serial communication connection		Direct CPU connection		Ethernet connection
			RS-422	RS-232	RS-422	RS-232	
KEYENCE CORPORATION	KV Nano	KV-N24□□/KV-N40□□/KV-N60□□/KV-NC32T	○	○	×	○	○
		KV-N14□□	○	○	×	○	×
	KV-700		○	○	×	○	○
	KV-1000		○	○	×	○	○
	KV-3000		○	○	×	○	○
	KV-5000	KV-5500/KV-5000	○	○	×	×	○
	KV-7000	KV-7500/KV-7300	○	○	×	○	○
OMRON Corporation	SYSMAC CJ1	CJ1H	○	○	×	○	○*2
		CJ1G	○	○	×	○	○*2
		CJ1M	○	○	×	○	○*2
	SYSMAC CJ2	CJ2H	○	○	×	○	○*2
		CJ2M	○	○	×	○*1	○*2
	SYSMAC CP1	CP1H	○	○	×	×	×
		CP1L	○	○	×	×	×
		CP1E (N type)*3	○	○	×	○	×
	NJ	NJ501-1500/NJ501-1400/NJ501-1300/NJ501-1520/ NJ501-1420/NJ501-1320/NJ501-1340	×	×	×	×	○
		NJ301-1200/NJ301-1100	×	×	×	×	○
		NJ101-1000/NJ101-9000/NJ101-1020/NJ101-9020	×	×	×	×	○
	NX	NX1P2-1140DT/NX1P2-1140DT1/NX1P2-1040DT/ NX1P2-1040DT1/NX1P2-9024DT/NX1P2-9024DT1	×	×	×	×	○
		NX701-1700/NX701-1600	×	×	×	×	○
Panasonic Industrial Devices SUNX Co., Ltd.	FP0		×	×	×	○	×
	FP1		×	○	×	○	×
	FP2		×	○	×	○	×
	FP3		×	○	×	○	×
	FP5		×	○	×	○	×
	FP10		×	○	×	○	×
	FP-M		×	×	×	○	×
	FP-∑		×	×	×	○	×
	FP-X		○	○	×	○	×
	FP-7		○	○	×	○	×
Siemens AG	SIMATIC S7-200/SIMATIC S7-200 SMART		×	×	×	○	○
	SIMATIC S7-200 CN		×	×	×	○	×
	SIMATIC S7-300		×	×	×	○	○
	SIMATIC S7-400		×	×	×	○	○
	SIMATIC S7-1200		×	×	×	×	○

*1 Only CJ2M-CPU1□ can be directly connected.
*2 Duplex Ethernet is not supported.
*3 Among CP1E (N type), only direct connection is possible for CPU units of 20 I/O points or less.

For details of connection, refer to the following "GOT2000 Series Connection Manual".

■ Mitsubishi Electric Products (SH-081197ENG)
■ Non-Mitsubishi Electric Products 1 (SH-081198ENG)
■ Non-Mitsubishi Electric Products 2 (SH-081199ENG)
■ Microcomputers, MODBUS/Fieldbus Products, Peripherals (SH-081200ENG)

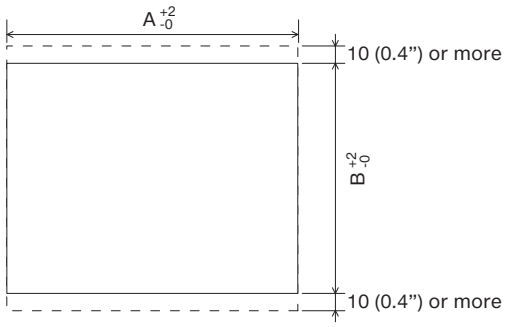
Panel cutting dimensions

Horizontal format (If the vertical format is selected, the dimension must be rotated 90˚.)

Cut holes in the following dimensions on the panel.
Ensure 10 mm of space in upper and lower parts of the panel for mounting fixtures.

Model	A	B
GS2110-WTBD	258 (10.16")	200 (7.88")
GS2107-WTBD	191 (7.52")	137 (5.4")

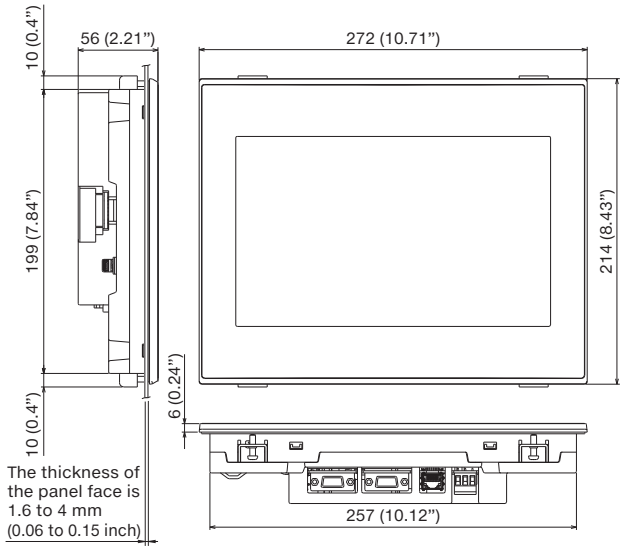
Unit: mm (inch)



Panel thickness: 1.6 to 4 mm
(0.06 to 0.15 inch)

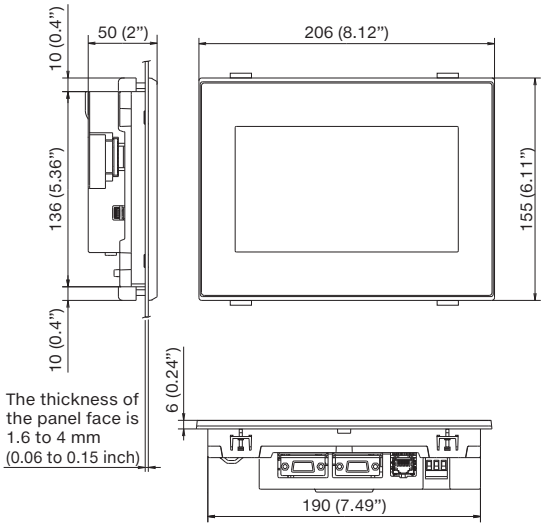
External dimensions

■ GS2110-WTBD



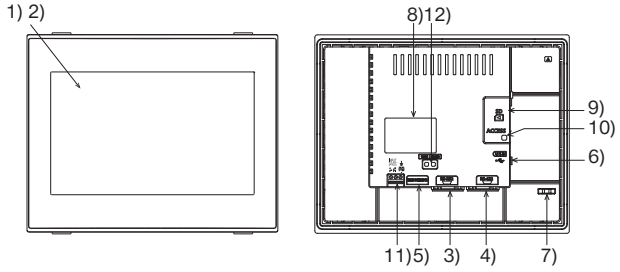
■ GS2107-WTBD

Unit: mm (inch)

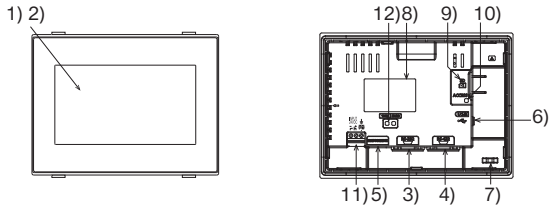


Components names

■ GS2110-WTBD



■ GS2107-WTBD



1) Display section
2) Touch panel
3) RS-232 interface
4) RS-422 interface
5) Ethernet interface
6) USB interface (device)
7) Cable clamp mounting hole
8) Rating plate
9) SD memory card interface
10) SD memory card access LED
11) Power terminal
12) Ethernet communication status LED
13) Unit installation fitting

Specifications

■ General specifications

Item	Specifications					
Operating ambient temperature	0 to 50ºC					
Storage ambient temperature	-20 to 60ºC					
Operating/ Storage ambient humidity	10 to 90%RH, non-condensing (The wet bulb temperature is 39°C). When the ambient temperature exceeds 40°C, maintain the absolute humidity at 40°C and 90%.					
Vibration resistance	Conforms to IEC 61131-2		Frequency	Acceleration	Half-amplitude	Sweep Count
		Under intermittent vibration	5 to 8.4 Hz	—	3.5 mm	10 times each in X, Y and Z directions
			8.4 to 150 Hz	9.8 m/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Conforms to IEC 61131-2 (147m/s², 3 times each in the X, Y, and Z directions)					
Operating atmosphere	Must be free of lamp black, corrosive gas, flammable gas, or excessive amount of electro conductive dust particles. Must be no direct sunlight. (Same as for saving)					
Operating altitude*1	2000 m (6562 ft) max.					
Installation location	Inside control panel					
Overvoltage category*2	II or less					
Pollution degree*3	2 or less					
Cooling method	Self-cooling					
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 0.14 to 1.5 mm² (solid wire), 0.14 to 1.0 mm² (stranded wire), or 0.25 to 0.5 mm² (rod terminal with an insulation sleeve). If impossible, connect the ground cable to the control panel.					

■ Power supply specifications

Item	Specifications	
	GS2110-WTBD	GS2107-WTBD
Input power supply voltage	24 V DC (+10%, -15%), ripple voltage 200 mV or less	
Power consumption	7.6 W (317 mA/24 V) or less	6.5 W (271 mA/24 V) or less
At backlight off	3.8 W (158 mA/24 V) or less	3.8 W (158 mA/24 V) or less
Inrush current	17 A or less (6 ms, ambient temperature 25°C, at the maximum load)	
Permissible instantaneous power failure time	Within 5 ms	
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power supply line)	
Dielectric withstand voltage	350 V AC for 1 minute (across power supply terminals and earth)	
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester	

*1 Do not use or store the GOT under pressures higher than the atmospheric pressure of altitude 0 m (0 ft).
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.

*2 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.
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 300 V is 2500 V.

*3 This index indicates the degree to which conductive pollution is generated in the environment where the equipment is used.
In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation.

■ Performance specifications

Item		Specifications	
		GS2110-WTBD	GS2107-WTBD
Display section*1	Type	TFT color liquid crystal display	
	Screen size	10"	7"
	Resolution	800 × 480 dots	
	Display size	W222 (8.74) × H132.5 (5.22) [mm] (inch) (Horizontal format)	W154 (6.06) × H85.9 (3.38) [mm] (inch) (Horizontal format)
	Display character	16-dot standard font: 50 characters 30 lines (Horizontal format)	
	Display color	65536 colors	
	Brightness	32-level adjustment	
Backlight		LED-type (no replacement required) Backlight off/screen saving time can be set.	
Touch panel*2	Type	Analog-resistive film type	
	Key size	Minimum 2×2 [dots] (per key)	
	Number of points touched simultaneously	Simultaneous 2-point presses prohibited (Only one point can be touched.)	
	Life	1 million times (operating force 0.98 N max.)	
Memory	C drive	Flash memory (Internal) (9 MB), for storing project data, OS	
		Life (Number of write times) 100000 times	
Built-in interface	RS-422	1 ch Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: D-sub 9 pins (Female) Terminating resistor: 330 Ω fixed	
	RS-232	1 ch Transmission speed: 115200/57600/38400/19200/9600/4800 bps Connector shape: D-sub 9 pins (Male)	
	Ethernet	Data Transfer method: 100BASE-TX, 10BASE-T, 1 ch Connector shape: RJ-45 (modular jack)	
	USB	USB (Full Speed 12 Mbps), 1 ch Connector shape: Mini-B	
	SD memory card	Conforms to the SD standard, 1 ch Supported memory card: SDHC memory card, SD memory card	
Buzzer output		Single tone (LONG/SHORT/OFF adjustable)	
Protective structure*3		IP65F (only the front part of the panel)	
External dimensions		W272 (10.71) × H214 (8.43) ×D56 (2.21) [mm] (inch)	W206 (8.11) × H155 (6.11) × D50 (1.97) [mm] (inch)
Weight		Approx. 1.3 kg (Excluding mounting fixtures)	Approx. 0.9 kg (Excluding mounting fixtures)
Compatible software package		Version1.215Z or later*4	

*1 Bright dots (always lit) and dark dots (unlit) may appear on a liquid crystal display panel. It is impossible to completely avoid this symptom, as the liquid crystal display comprises of a great number of display elements. Flickers and partial discoloration may be generated on the liquid crystal display panel due to individual differences of panels. Please note that these phenomena appear due to its characteristic and are not caused by product defect.

*2 The touch panel is an analog-resistive type. Simultaneous pressing of two or more areas on the touch panel may activate the switch between those areas. Do not press two or more areas simultaneously on the touch panel.

*3 Note that this does not guarantee all users' operation environment. In addition, the product may not be used in environments under exposition of oil or chemicals for a long period of time, or in environments filled with oil-mist.

*4 When the software is earlier than GT Works3 Version1.215Z, installation of the GS installer is required.

Product list

■ GOTs

Product name	Model	Screen size	Display section/Display color	Panel color	Power
GOT SIMPLE Series	GS2110-WTBD	10" widescreen	TFT color/65536 colors	Black	24 V DC
	GS2107-WTBD	7" widescreen			

■ Software

Product name	Model	Description		
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product	DVD-ROM
	SW1DND-GTWK3-EA		Volume license product*1*3	
	SW1DND-GTWK3-EAZ		Additional license product*1*2	

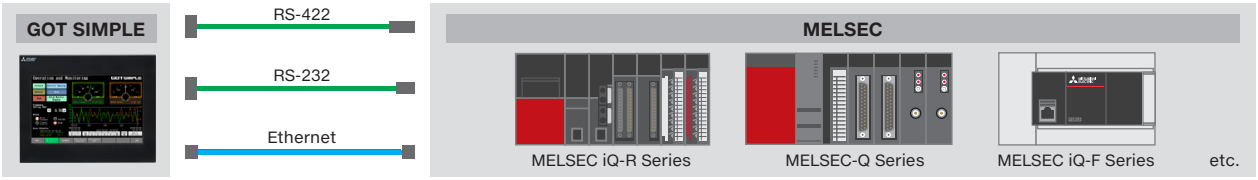
*1 The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.
*2 This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.
*3 Volume license product is not sold separately and should be purchased with the standard license product.

■ Options

Product name	Mode	Specifications
SD memory card	NZ1MEM-2GBSD	SD memory card for GOT, 2 GB
	NZ1MEM-4GBSD	SDHC memory card for GOT, 4 GB
	NZ1MEM-8GBSD	SDHC memory card for GOT, 8 GB
	NZ1MEM-16GBSD	SDHC memory card for GOT, 16 GB

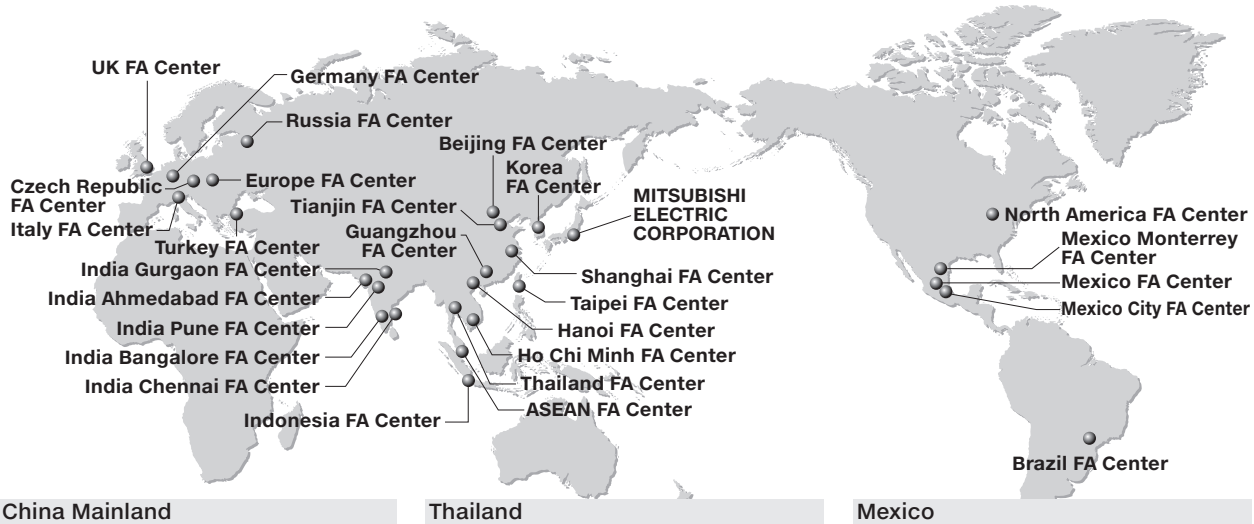
■ Cables

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



Product name		Model	Cable length	Specifications
RS-422 Cable	FXCPU direct connection cable, FXCPU expansion board connection cable	GT01-C10R4-8P	1 m	FXCPU ⇔ GOT FXCPU expansion board ⇔ GOT [MINI-DIN 8 pins ⇔ D-sub 9 pins]
		GT01-C30R4-8P	3 m	
		GT01-C100R4-8P	10 m	
		GT01-C200R4-8P	20 m	
		GT01-C300R4-8P	30 m	
	QnA/A/FXCPU direct connection cable, Computer link connection cable	GT01-C30R4-25P	3 m	QnA/ACPU/motion controller CPU [A series]/FXCPU ⇔ GOT RS-422 converter cable [FA-CNV□ CBL] ⇔ GOT Serial communication unit ⇔ GOT [D-sub 25 pins ⇔ D-sub 9 pins]
		GT01-C100R4-25P	10 m	
		GT01-C200R4-25P	20 m	
		GT01-C300R4-25P	30 m	
	Computer link connection cable	GT09-C30R4-6C	3 m	Serial communication unit ⇔ GOT Computer link unit ⇔ GOT [Stranded wire ⇔ D-sub 9 pins]
		GT09-C100R4-6C	10 m	
		GT09-C200R4-6C	20 m	
		GT09-C300R4-6C	30 m	
RS-232 Cable	Q/LCPU direct connection cable	GT01-C30R2-6P	3 m	Q/LCPU ⇔ GOT [MINI-DIN 6 pins ⇔ D-sub 9 pins]
	FXCPU expansion board connection cable, FXCPU special adapter connection cable	GT01-C30R2-9S	3 m	FXCPU expansion board ⇔ GOT FXCPU special adapter ⇔ GOT [D-sub 9 pins ⇔ D-sub 9 pins]
	FXCPU special adapter connection cable	GT01-C30R2-25P	3 m	FXCPU special adapter ⇔ GOT [D-sub 25 pins ⇔ D-sub 9 pins]
	Computer link connection cable	GT09-C30R2-9P	3 m	Serial communication unit ⇔ GOT Computer link unit ⇔ GOT [D-sub 9 pins ⇔ D-sub 9 pins]
		GT09-C30R2-25P	3 m	Serial communication unit ⇔ GOT Computer link unit ⇔ GOT [D-sub 25 pins ⇔ D-sub 9 pins]
USB Cable	Data transfer cable	GT09-C30USB-5P	3 m	Personal computer [Screen design software] ⇔ GOT [USB-A ⇔ USB Mini-B]

Global FA Centers



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Related materials

■ GOT SIMPLE Series solution catalogs

Simple Solution Catalog
L(NA)08355ENG

Graphic Operation Terminal
GOT2000 Drive Control (Servo)
Interactive Solutions
L(NA)08335ENG

Graphic Operation Terminal
GOT2000 Drive Control (Inverter)
Interactive Solutions
L(NA)08572ENG

■ HMI catalogs

Graphic Operation Terminal
GOT2000 Series
L(NA)08270ENG

Industrial Computer
MELIPC Series MI3000
L(NA)08600ENG

The actual color may differ slightly from the pictures in this catalog.
The actual display may differ from what are shown on GOT screen images.

Precautions before use

This publication explains the typical features and functions of the products herein and does not provide restrictions or other information related to usage and module combinations. Before using the products, always read the product user manuals. Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; opportunity loss or lost profits caused by faults in Mitsubishi Electric products; damage, secondary damage, or accident compensation, whether foreseeable or not, caused by special factors; damage to products other than Mitsubishi Electric products; or any other duties.

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

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The release date varies depending on the product and your region. For details, please contact your local sales office.

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Country/Region	Sales office						
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