



FACTORY AUTOMATION

e-Factory

Graphic Operation Terminal GOT2000 Drive Control (Servo) Interactive Solutions



Advanced drive control connectivity provides additional value to your system



INDEX

1	Startup, adjustment
	To solve issues at installation
	Parameter cotting

Parameter setting	P.6
Test operation (JOG operation, etc.)	P.8
One-touch tuning function	P.9
Tuning function	P.9
Servo amplifier graph function	P.10
(startup, adjustment) NEW	
FA transparent function	P.10

2 Maintenance

To solve issues in operation (trouble	eshooting)
System launcher	P.11
(servo network) function NEW	
Drive recorder function	P.12
Servo amplifier data analysis	P.12
Servo amplifier graph function	P.13
(maintenance) NEW	
Backup/Restoration function	P.13
Monitor function	P.14
R motion monitor function/	P.15
Q motion monitor function	

2 Maintenance

Motion SFC monitor function	P.15
Motion program editor function NEW	P.16
Servo amplifier monitor function	P.16
Intelligent module monitor function	P.17
Alarm display function	P.17

To solve issues in operation (predictive maintenance)

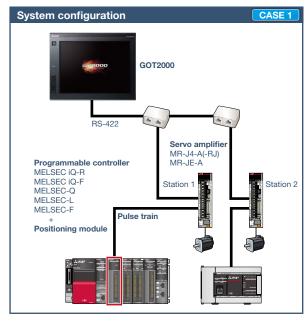
Machine diagnosis function	P.18
Machine failure prediction function NEW	P.19
Switching axis numbers (station	P.20
numbers) of servo amplifiers NEW	
Servo amplifier life diagnosis function	P.20

3 Screen design

To solve issues of screen design

Sample screens	P.21
User-created screen	P.21
Utilizing screen data NEW	P.22

GOT and servo system configurations



■ System configuration features

- Command interface: pulse train
- Control mode: positioning control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8/32 axes
- * Cannot be used in the MR-J3 compatible mode.



■ System configuration features

- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening & press-fit control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 2/4/8/16 axes
- * Cannot be used in the MR-J3 compatible mode.

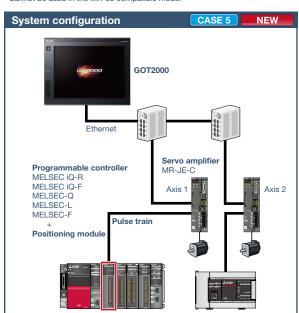
MITSUBISHI GRAPHIC OPERATION TERMINAL GOTZOOO + MELSERVO AMPLIFIERS & MOTORS O-J4

GOT and servo system configurations



■ System configuration features

- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening &press-fit control, cam control
- Program: motion program (SFC)
- Max. number of control axes: 16/32/64 axes
- * Cannot be used in the MR-J3 compatible mode.



■ System configuration features

- Command interface: pulse train
- Control mode: positioning control, speed control, torque control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8 axes



■ System configuration features

- Command interface: CC-Link IE Field Network
- Control mode: positioning control, synchronous control, speed control, torque control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 4/8/16/32 axes



The GOT2000 provides advanced functionality and improves connectivity with Mitsubishi servo systems. It provides some functions of MR Configurator2 (supporting MR-J4).

The GOT Drive enhanced functionality is designed to eliminate need for additional hardware, software and suits customers' applications to speed up system startup, improve maintenance and troubleshooting.





GOT2000 Drive Control Interactive Solutions Movie (MITSUBISHI ELECTRIC Factory Automation Global Website)



GOT2000 Drive Control Interactive Solutions Movie (YouTube)



Drive control interactive functions and supported models

Supported drive control interactive functions differ depending on the system configuration. Please refer to the following list.

				GOT					Supported system configuration						
				supported models					CASE 1						
	Function name			GT 27	GT GT 27 25	GT 23	GT 21		M Function	MR-J4-A(-RJ)			MR-JE-A Function Sample Dedicated		
									available	Sample screen*1*9	Dedicated screen*2	available	screen*1	screen*2	
		Basic setting parameters	P.6	0	0	0	0	0	0	•	©*5	0	×	×	
		Gain/Filter parameters	P.6	0	0	0	0	0	0	•	©*5	0	×	×	
		Extension setting 1 parameters	P.6	0	0	0	0	0	0	•	©*5	0	×	×	
	Parameter	Extension setting 2 parameters	P.6	0	0	0	0	0	0	•	©*5	0	×	×	
	setting	Extension setting 3 parameters	P.6	0	0	0	0	0	0	•	© *5	0	×	×	
		I/O setting parameters	P.7	0	0	0	0	0	0	•	© *5	0	×	×	
		Linear servo/DD motor setting	P.7	0	0	0	0	0	0	•	©*5	_	_	_	
Startup, adjustment		Point table	P.7	0	0	0	0	×	MR-J4-A-RJ only	MR-J4-A-RJ only	_	0	×	_	
		JOG operation	P.8	0	0	0	0	0	0	•	© *5	0	×	×	
	Test operation	Positioning operation	P.8	0	0	0	0	0	0	•	© *5	0	×	×	
		Output signal (DO) forced output	P.8	0	0	0	0	0	0	•	△*5	0	×	×	
		One-touch tuning function	P.9	0	0	0	0	0	0	•	_	0	×	_	
		Tuning function	P.9	0	0	0	0	0	0	•	_	0	×	_	
		Servo amplifier graph function NEW	P.10	0	0	×	×	×	×	_	×	×	_	×	
		FA transparent function*4	P.10	0	0	0	×	_	_	_	_	_	_	_	
		System launcher (servo network) function NEW	P.11	0	0	×	×	×	_	_	_	_	_	_	
		Drive recorder function	P.12	0	0	×	×	×	×	_	×	×	_	×	
		Servo amplifier graph function NEW	P.13	0	0	×	×	×	×	_	×	×	_	×	
		Backup/Restoration function	P.13	0	0	0	×	×	×	_	_	×	_	_	
		Operation monitor	P.14	0	0	0	0	0	0	•	△*5	0	×	×	
		Power monitor	P.14	0	0	0	0	0	0	•	_	0	×	_	
		Input/output monitor	P.14	0	0	0	0	0	0	•	△*5	0	×	×	
	Troubleshooting	R motion monitor function*4	P.15	0	0	×	×	×	_	_	_	_	_	_	
		Q motion monitor function*4	P.15	0	0	×	×	X	_	_	_	_	_	_	
Maintenance		Motion SFC monitor function*4	P.15	0	0	×	×	×	_	_	_	_	_	_	
		Motion program editor function	P.16	0	0	×	×	×	_	_	_	_	_	_	
		Servo amplifier monitor function	P.16	0	0	×	Δ	×	0	•	0	×	×	×	
		Intelligent module monitor function*4	P.17	0	0	×	X	×	○*3	_	0	○*3	_	0	
		Alarm display function	P.17	0	0	0	0	0	0	•	_	0	×	_	
		Machine diagnosis function	P.18	0	0	0	0	0	0	•	_	0	×	_	
		Failure prediction function NEW	P.19	0	0	0	0	×	_	_	_	_	_	_	
	Predictive maintenance	Switching axis numbers (station numbers) of servo amplifiers	P.20	0	0	0	0	0	0	•	_	0	×	_	
		Servo amplifier life diagnosis function	P.20	0	0	0	0	0	0	•	_	0	×	_	
Screen design	1	Utilizing screen data NEW	P.22	0	0	0	0	0	0	-	_	0	_	-	

The sample screen is the project data that is included with GT Works3. (As of June 2018)

The dedicated screen is the screen that is provided as the extended function of GOT; therefore there is no need for the users to create the screen.

^{*3} In the system configuration of CASE 1 (page 2) and CASE 5 (page 3), the function can be used by adding wiring between GOT and programmable controller.

The supported version of GT Works3 differs depending on the type of connected device (CPU, intelligent function module).

^{*5} Parameters of the function can be monitored by using the servo amplifier monitor function in the dedicated screen.
*6 Usable when the GOT and the programmable controller (iQ-R only) are connected via Ethernet, and the programmable controller and the servo amplifier are connected via the CC-Link IE Field Network.

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• : Sample screens available © : Dedicated screens available O : Function supported \triangle : Partially supported - : Not applicable \times : Not supported

	Supported system configuration										
С	CASE 2/CASE 3			CASE 2			CASE 4 NEW	1		CASE 5 NEW	1
	MR-J4-B(-RJ MR-J4-W2-E MR-J4-W3-E	8(-RJ) W2-B MR-JE-B MR-J4-GF(-RJ) W3-B			MR-JE-B			MR-JE-C			
Function available	Sample screen*1*9	Dedicated screen*2	Function available	Sample screen*1*10	Dedicated screen*2	Function available	Sample screen*1	Dedicated screen*2	Function available	Sample screen*1	Dedicated screen*2
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	_	_	_	0	×	_	_	_	_
_	_	_	_	_	_	0	×	_	_	_	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	_	0	0	_	0	×	_	×	×	_	×
0	_	_	0	_	_	_	_	_	_	_	_
0	_	0	0	_	0	_	_	_	_	_	_
0	_	0	0	_	0	0	_	0	×	_	×
0	_	0	0	_	0	×	_	×	×	_	×
×	_	_	×	_	_	○*6 MR-J4-GF only	_	_	×	_	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
○*8	_	0	_	_	_	_	_	_	_	_	_
○*8	_	0	_	_	_	_	_	_	_	_	_
○*8	_	0	_	_	_	_	_	_	_	_	_
○*8	_	0	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_
0	_	0	0	_	0	0	_	0	○*3	_	0
0	•	_	0	•	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	-	0	×	_
_	_	_	_	_	_	0	×	_	_	_	_
0	•	_	0	×	_	0	×	_	0	×	_
0	•	_	0	•	_	0	×	_	0	×	_
0	_	_	0	_	_	0	_	_	0	_	_

[†]7 Supported by using GT Works3 version 1.160S or later. GT SoftGOT2000 can be used in the system configuration of CASE 2 (page 2) and CASE 3 (page 3).

^{*8} The function can be used in the system configuration of CASE 3 (page 3).

^{*9} Sample screens are available for GT27**-V (640 × 480) and GT2104-R (480 × 272) only. The data can be used for GOTs with different resolutions by changing the GOT type.
*10 Sample screens are available for GT27**-V (640 × 480) and GT2104-R (480 × 272) only. The data can be used for GOTs with different resolutions by changing the GOT type.



Parameter setting



GT25



GT23



GT21

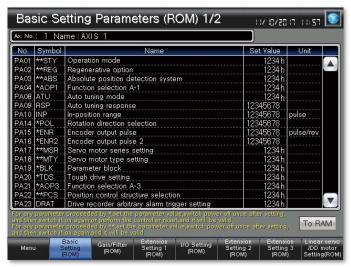


The screens can be used to display and set the values of various parameters in the servo amplifier.

*1 Sample screens to connect to MR-J4-GF(-RJ), MR-JE-A, MR-JE-C are not available. To monitor parameters, please refer to the "User-created screen" on page 21.

*2 GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C



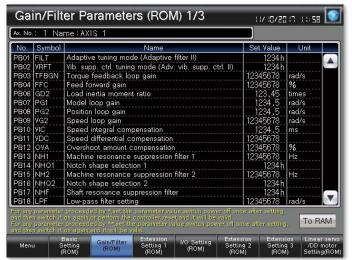
Basic setting parameters screen

GT27

Display and set the values of the following parameters in the servo amplifier.

- Basic setting parameters ([Pr. PA_])
- * The screen with the same contents is also available for RAM.

^{*} The screen image is the connection sample screen of MR-J4-B.



Gain/filter parameters screen

Display and set the values of the following parameters in the servo amplifier.

- Gain/filter setting parameters ([Pr. PB_ _])
- * The screen with the same contents is also available for RAM.

Extension Setting 1 Parameters (ROM) 1/2 117 (0750 (7.18:01)

No.	Symbol			Name			Set \	/alue	Unit	
PC01	ERZ	Error ex	cessive alar	m level			12345	678	rev	A
C02	MBR	Electron	nagnetic bra	ke sequence	output		12345	678	ms	•
C03	*ENRS	Encode	r output puls	e selection				1234 h		
C04	**COP1	Function	selection C	-1				1234 h		
C05	**COP2	Function	selection C	-2				1234 h		
C06	*COP3	Function	n selection C	-3				1234 h		
C07	ZSP	Zero sp	eed				12345	678	r/min	
PC08	OSL	Overspe	Overspeed alarm detection level				12345	678	r/min	
C09	MOD1	Analog	Analog monitor 1 output					1234 h		
PC10	MOD2	Analog	Analog monitor 2 output					1234 h		
PC11	MO1	Analog	Analog monitor 1 offset					678	mΥ	
PC12	MO2	Analog	Analog monitor 2 offset					678	mΥ	
PC13	MOSDL	Analog r	nonitor - F/B	pos. output s	tandard data	- Low	12345	678	pulse	
PC14	MOSDH	Analog r	nonitor - F/B	pos. output s	tandard data	- High	12345	678	10000pulse	
PC17	**COP4	Function	selection C	-4				1234 h		
PC18	*COP5	Function selection C-5						1234 h		
PC20 *COP7 Function selection C-7 1234h										
or any parameter proceeded by *set the parameter value, switch power off once after setting, and then switch it on again, or periorm the controller reset, and it will be valid. To RAM and then switch it on again, or periorm the parameter value, switch power off once after setting, and then switch it on again, and it will be valid.										
Meni	ı E	asic etting ROM)	Gain/Filter (ROM)	Extension Setting 1 (ROM)	I/O Setting (ROM)	Extens Settin (RON	g 2	Extensi Setting (ROM	3 /DD	moto

Extension setting parameters screen

Display and set the values of the following parameters in the servo amplifier.

- * The screen with the same contents is also available for RAM.
- Extension setting 1 parameters ([Pr. PC_ _])
- Extension setting 2 parameters ([Pr. PE_ _])
- Extension setting 3 parameters ([Pr. PF_ _])

The screen image is the connection sample screen of MR-J4-B

^{*} The screen image is the connection sample screen of MR-J4-B.

The sample screens are updated as necessary so that the image in this page may not be the same as the latest screen in the sample screen data. For the latest sample screen data, please contact your local sales office

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MR-J4-B

B-RJ MR-J4-B-RI

MR-J4-GF JE-B MR-JE-B

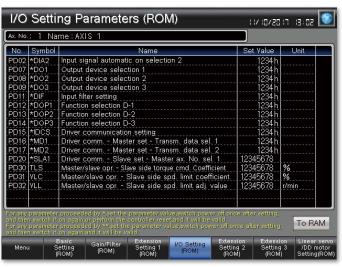
MR-J4-GF-RJ JE-A MR-JE-A

WB MR-J4W2-B/MR-J4W3-B

MR-J4-A

A-RJ MR-J4-A-RJ

JE-C MR-JE-C



^{*} The screen image is the connection sample screen of MR-J4-B.

Linear servo motor/DD motor setting (ROM) 117/18/28 17 11:27 Ax. No.: 1 Name: AXIS 1 Name Set Value Linear servo motor/DD motor function selection 1 Linear encoder resolution - Numerator Linear encoder resolution - Denominator Linear servo motor/DD motor function selection 2 Position deviation error detection level Speed deviation error detection level Torque/thrust deviation error detection level Linear servo motor/DD motor function selection 3 Magnetic pole detection voltage level Mag. pole detn. - Min. pos. detn. meth. - Func. sel. Mag. pole detn. - Minute pos. detn. - Ident. sig. amp. PL03 PL04 PL05 **LID *LIT2 LB1 LB2 LB3 mm *LIT3 LPWM LTSTS IDLY 123456 % 12345678 To BAM

Point table 03/22/20 18 10:20 🥌 St.: 0 Name Target position ub function M code speed ms 123456 123456 123456 123456 123456 123456 123456 123456 123456 123456 123456 123456 123456 123456 123 123456 123456 123456 123456 123456 123456 123456 123 123456 123 123456 🔻

I/O setting parameters screen

Display and set the values of the following parameters in the servo amplifier.

- I/O setting parameters ([Pr. PD_ _])
- * The screen with the same contents is also available for RAM.

Linear servo/DD motor setting screen

Display and set the values of the following parameters in the servo amplifier.

- Linear servo/DD motor setting parameters ([Pr. PL_ _])
- * The screen with the same contents is also available for RAM.

Point table screen (MR-J4-A-RJ* only)

Display and set the values in the point table of a servo amplifier (MR-J4-A-RJ*).

* GT SoftGOT2000 does not support connection to MR-J4-A-RJ.

^{*} The screen image is the connection sample screen of MR-J4-A-RJ.

The sample screens are updated as necessary so that the image in this page may not be the same as the latest screen in the sample screen data. For the latest sample screen data, please contact your local sales office.



Test operation



GT25



GT23



GT21

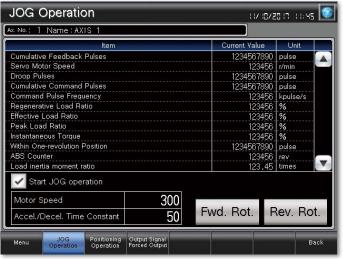


Use GOT to test the operation and check status of the servo amplifier without a personal computer.

*1 Sample screens to connect to MR-J4-GF(-RJ), MR-JE-A, MR-JE-C are not available. To monitor parameters, please refer to the "User-created screen" on page 21.

*2 GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C



JOG operation screen

GT27

GOT can be used to send a command to perform test operation (JOG operation) without sending the command from an external controller.

Check the [Start JOG operation] checkbox to switch to the JOG operation mode.

Set the motor speed and the acceleration/deceleration time constant and start JOG operation.

The motor rotates while the forward or the reverse switch is touched.

Positioning Operation רציון רו מכעמו עון Ax. No.: 1 Name: AXIS 1 Current Value Unit Cumulative Feedback Pulses 1234567890 nulse Servo Motor Speed 123456 Droop Pulses Cumulative Command Pulses 1234567 pulse Command Pulse Frequency kpulse/s Regenerative Load Ratio Effective Load Ratio % % Peak Load Ratio 456 nstantaneous Torque Within One-revolution Position 123456 R pulse ABS Counter rev ad inertia moment ratio Start positioning operation Rev. Rot. Notor Speed Restart Accel./Decel. Time Constan Stop Clear Move Distance

* The screen image is the connection sample screen of MR-J4-B.

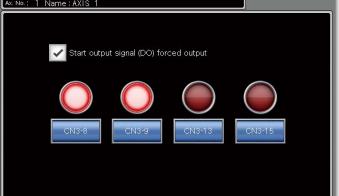
Positioning operation screen

GOT can be used to send a command to perform test operation (positioning operation) without sending the command from an external controller.

Check the [Start positioning operation] checkbox to switch to the positioning operation mode.

Set the motor speed, the acceleration/deceleration time constant, and the travel distance and start positioning operation.

The positioning operation starts when the forward or the reverse switch is touched.



signals of a servo amplifier.

Check the [Start output signal (DO) forced output] checkbox to switch to the output signal (DO) forced output mode.

Perform the forced output of a signal by touching the corresponding switch. The lamp is lighted while the signal is output.

Operation

^{*} The screen image is the connection sample screen of MR-J4-B.

^{*} The screen image is the connection sample screen of MR-J4-B.

^{*} The sample screens are updated as necessary so that the image in this page may not be the same as the latest screen in the sample screen data. For the latest sample screen data, please contact your local sales office.

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J4 Only!

One-touch tuning function



Easily adjust servos without a personal computer

GT27

GT25 GT23

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C

GT21

* GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

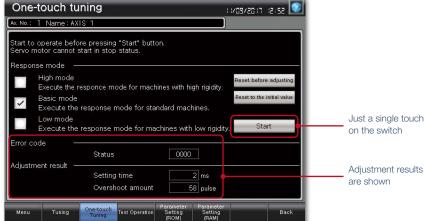
Challenges



Solutions

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



How can I adjust servo amplifiers without a personal computer?



Perform one-touch tuning on GOT and efficiently adjust the servo amplifier without a personal computer.

J4 Only!

Tuning function

GT25 GT23

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C



GT21



Perform fine tuning of gain/filter parameters

* GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

Challenges



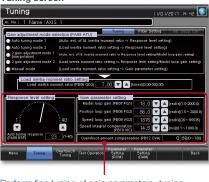
It's difficult to determine an optimum gain when setting up the device. It's bothersome to connect a personal computer every time I adjust a gain.

Solutions

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.

GT27

Tuning screen



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

Filter setting screen



Vibration suppression control



Adjust gains on GOT and efficiently setup the system while performing other tasks in parallel.



NEW

Servo amplifier graph function (startup, adjustment)







B B-RJ WB JE-B



Check and adjust gains in a graph waveform

GT27

GT25

GT23 GT21

GT Soft GOT2000

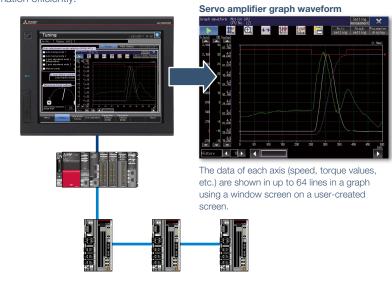
Challenges



Can I adjust gains while checking the waveform data at the worksite?

Solutions

The servo amplifier graph function visualizes changes in operation of the equipment due to gain adjustment. Without using a personal computer, you can adjust gains and check parameter information efficiently.



Point!

Adjust gains and check parameters without using a personal computer.

FA transparent function

End user ОЕМ

Maintenance

Easy startup

Support system startup and adjustment

GT27

GT25

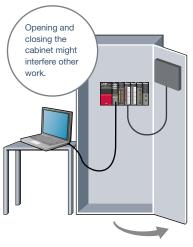
GT23

GT21 6

B B-RJ WB JE-B

3012000

Challenges



Is it possible to debug programs without opening the cabinet?

Solutions

By connecting a personal computer to a GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices with the following software applications:

MELSOFT MR Configurator2,

MELSOFT MT Works2,

MELSOFT GX Works3,

MELSOFT GX Works2,

MELSOFT GX Configurator-QP

Users do not have to bother with opening the cabinet or changing cable connections.



Point

Use the front USB interface on the GOT to connect to devices without opening the electrical cabinet.

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NEW

System launcher (servo network) function







B B-RJ WB JE-B



Display the servo network configuration on the on-site GOT

GT23

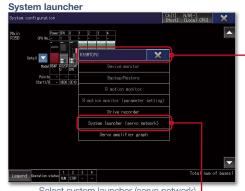
Challenges



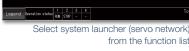
In case of a system failure, is there a simple and quick way to check where the problem occurred?

Solutions

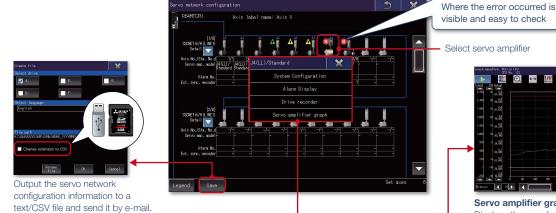
GOT automatically generates the network configuration diagram for the number of servo axes used so that you can check the system in an easy-to-view screen. You can start the function from the utility screen or just by touching a special function switch on a user-created screen to check the system status.

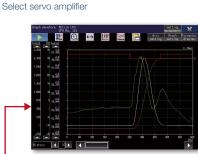


Select motion controller CPU or Simple Motion module



Servo network configuration diagram

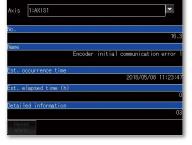


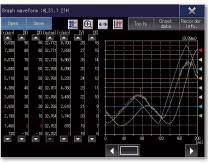


Servo amplifier graph waveform Displays the waveform data of a servo amplifier that is useful for analysis.



You can check it at a remote location.





System configuration display

Displays the model and the serial number of servo amplifier and motor.

Alarm display

Displays currently occurring errors in the servo amplifier.

Drive recorder graph waveform

From the drive recorder information screen, displays the waveform data that is useful for analysis.

^{*} To use this function, open the [Common] > [GOT Setup] > [Advanced Setting] > [System Launcher] menu and check the [Update the setting of system launcher function], and also check the [Display the servo network configuration] in Controller System Launcher Function Setting.



Check the product information of the servo amplifier and occurring alarms from the servo network configuration diagram without using a personal computer.



Drive recorder function









Check servo amplifier alarm information on the GOT

GT27

The axis label name is

GT21 GT23

B B-RJ WB GF GF-RJ JE-B

Challenges

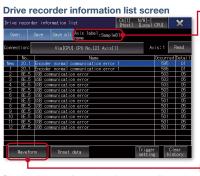


In case of a system failure, is there a simple and quick way to check the problem cause?

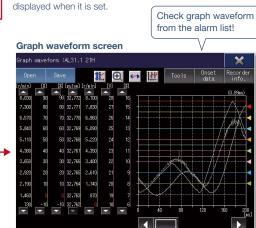
Solutions

Servo alarm data such as motor current and position command can be read from the servo amplifier and displayed in a waveform or a list format. Easily check the servo data on GOT without using a personal computer.

* The drive recorder function can also be started from the CC-Link IE Field Network diagnostics.



Display the waveform data that was collected at the occurrence of a servo alarm in a window screen



GOT can be used to display the screen equivalent to the drive recorder of MR Configurator2.

Servo amplifier data analysis

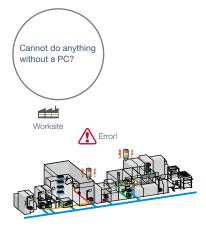
Retrieve servo amplifier data using GOT and analyze it on GT27 GT25 your computer

GT23

GT21

B B-RJ WB GF GF-RJ JE-B

Challenges

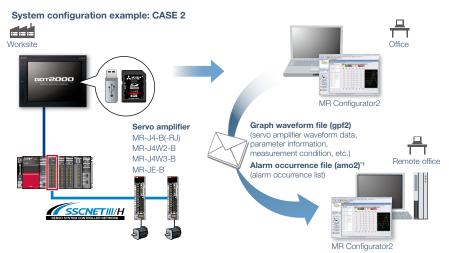


In case of a system failure, is there a simple and quick way to retrieve the servo data and analyze the problem cause?

Solutions

GOT reads the data which is saved in a servo amplifier and stores it in GOT's SD memory card or USB memory. After obtaining the servo data from GOT, you can send it to an office in a remote location and quickly solve the problem.

* The graph waveform file (gpf2) of the servo amplifier graph function is compatible with MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B.



Point!

Save files of the graph waveform data (gpf2) and the list at the alarm occurrence (amo2)*1 to an SD memory card or USB memory on the GOT and analyze it on a personal computer.

*1 Alarm occurrence file (amo2) is supported by the drive recorder function.

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NEW

Servo amplifier graph function (maintenance)











Analyze the waveform data of a servo amplifier

GT27

GT25

GT23 GT

GT Soft GOT2000

B B-RJ WB JE-B

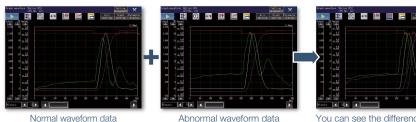
Challenges



How can I compare the data before and after the error occurrence?

Solutions

In the servo amplifier graph function, a specific period of time can be set in the collection and trigger setting window. Then the waveform data that occurred within the set period and the parameter information can be buffered in a servo amplifier, and can be read out and displayed on the GOT. By saving a normal waveform data as a history, you can compare it with the data measured in the same conditions by superimposing them; therefore it is useful for equipment maintenance.



You can see the difference at a glance by superimposing normal and abnormal waveform data

Point!

Compare normal and abnormal waveform data and analyze them for equipment maintenance.

J4-GF Only!

Backup/Restoration function

use

OEM

Preventive maintenance Troubleshooting

Easily backup parameters

GT27

GT25

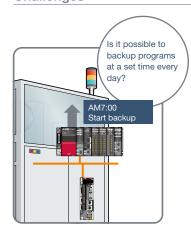
GT23

GT21

GT Soft GOT2000

GF

Challenges



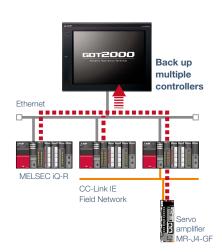
How can I backup parameters of servo amplifiers periodically?

Solutions

Backup or restore the parameters of a servo amplifier to or from the GOT's SD memory card or USB memory. You can specify a trigger device, a day of the week, and time for automatic backup.

The function makes it easier to backup data at the end of the day, before the weekend, or before the holiday. You can perform batch operation to restore the data to the servo amplifier.

* Ethernet connection is supported between GOT and a programmable controller (iQ-R only). For connecting the programmable controller and a servo amplifier, CC-Link IE Field Network connection can be used. Note that this function cannot be used when the CC-Link IE Field Network Ethernet adapter module is used.



Point!

Improve production efficiency by using the GOT to manage product changeovers and maintenance recovery procedures.



Monitor function









The screens can be used to display the status of the servo amplifier in operation and the I/O signals.

GT27 GT25 GT23 GT21 GTSoft GOT2000

- *1 Sample screens to connect to MR-J4-GF(-RJ), MR-JE-A, MR-JE-C are not available. To monitor parameters, please refer to the "User-created screen" on page 21.
- *2 GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C



Operation monitor screen 1/2

The screen can be used to display and check the status of the servo amplifier in operation.

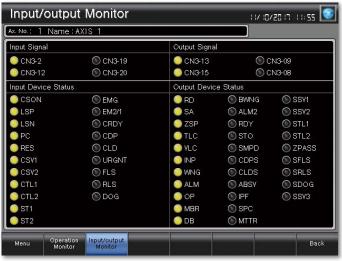




Operation monitor screen 2/2 (Power monitor)

The screen can be used to display and check the status (power consumption, total power consumption, etc.) of the servo amplifier in operation.





Input/output monitor screen

The screen can be used to display and check the status of the servo amplifier input/output signals.

It is also useful for checking the status of the I/O signals with just the servo amplifier before connecting to a system.

The screen image is the connection sample screen of MR-J4-B

^{*} The sample screens are updated as necessary so that the image in this page may not be the same as the latest screen in the sample screen data. For the latest sample screen data, please contact your local sales office.

MITSUBISHI GRAPHIC OPERATION TERMINAL GOTZOOO + MELSERVO AMPLIFIERS & MOTORS O-J4

R motion monitor function/Q motion monitor function sor









Support startup, adjustment of motion controllers

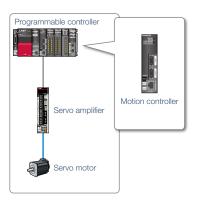
GT27 GT25

GT23

GT21

B B-RJ WB

Challenges



Can I check and change servo parameters of a motion controller easily?

Solutions

In a dedicated screen on GOT, it is possible to monitor and set parameters of motion controllers that are mounted on the same base unit.

R motion monitor screen



Parameter setting screen

- <Supported models>
- R64MTCPU/R32MTCPU/R16MTCPU
- Q173DSCPU/Q172DSCPU
- Q170MSCPU(-S1)
- Q170MCPU
- Q173DCPU(-S1)/Q172DCPU(-S1)
- Q173HCPU/Q172HCPU
- Q173CPU(N)/Q172CPU(N)
- * Motion controller OS (MELSEC-Q Series) should be SV13 or SV22. Supported contents of the Q motion monitor function vary depending on the CPU model.
- * For the details of supported devices and connection types, please refer to the relevant product manual.



Monitor and change servo parameters of a motion controller on GOT.

Motion SFC monitor function

Check motion SFC programs without a personal computer

GT27

GT23

GT21

B B-RJ WB

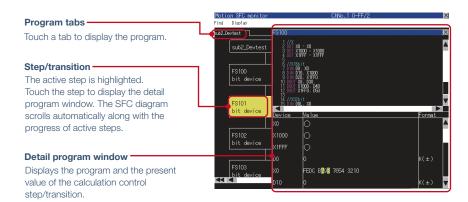
Challenges



How can I check motion SFC programs without a personal computer?

Solutions

GOT can monitor motion SFC programs in the motion controller CPU (Q series) and display them in the SFC diagram format. Viewing the program batch monitor or active step list enables you to check the complete status at a glance.



<Supported models>

Motion controller CPU (Q Series)

- * Motion controller OS (MELSEC-Q Series) should be SV13 or SV22.
- * For the details of production number and the OS version supported by QCPU, please refer to the relevant product manual.

Easily troubleshoot programs on GOT without a personal computer.



NEW

Motion program editor function

Dedicated screen

End user ОЕМ

GT23

Maintenance

GT21

Troubleshooting

Display and edit motion programs (G-code programs) on the GOT

Solutions B B-RJ W

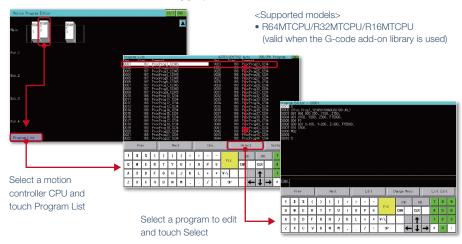
Challenges Solutions B B-RJ WB



An error occurred during production. Can I edit the motion programs (G-code programs) at the worksite?

Motion programs (G-code programs) can be edited in the dedicated screen of the motion program editor function of the GOT.

- * Supported by GOTs with a resolution of SVGA or higher.
- * To use G-code control, the G-code add-on library (paid) must be installed.



Point!

Edit motion programs (G-code programs) at the worksite without a personal computer.

Servo amplifier monitor function

Sample screen Dedicated screen End user

GT23

ОЕМ

GT21

Troubleshooting

A A-RJ

Support startup, adjustment of servo systems

Challenges

Solutions

In a system which outputs pulse trains, the GOT can be connected to a servo amplifier in a serial connection (RS-422) to perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.

It's bothersome to design setting screen from scratch...



How can I check the status of servo amplifier easily?

Dedicated screens

MR-J4-A	Servo amp.Monitor	[OSt]	Menu End			
Cumulative feedback	-1061092 pulse	Within one- revolution position	4066386 pulse			
Servo motor speed	0 r/min	ABS counter	-627 rev			
Droop pulses	1 pulse	Load to motor inertia ratio	7.00 times			
Cumulative command pulses	0 pulse	Bus voltage	310 V			
Command pulse frequency	0 kbps	Encoder internal temperature	58 °C			
Analog speed command voltage	-0.05 V	Settling time	2 ms			
Analog torque command voltage	0.00 V	Oscillation detection frequency	0 Hz			
Regenerative load	0 %	Tough drive times	0 times			
Effective load	0 x	Unit power consumption	10 W			
Peak load ratio	0 %	Unit total power consumption	10 Wh			
Instantaneous	0 %					
Print Sareen Print						

Without creating screens, parameters can be monitored and written from dedicated screens.

Sample screens (VGA)



Various sample screens such as monitoring, parameter settings, test operations are available and they are all customizable.

 * Sample screens for GT21 are available in 480 \times 272.



Various monitoring functions, changes to the parameter settings, and test operations can be performed on the servo amplifier connected to the GOT.

^{*} Not supported by GT21.

MITSUBISHI GRAPHIC OPERATION TERMINAL MITSUBISHI SERVO AMPLIFIERS & MOTORS OF JA

Intelligent module monitor function









Support debug of positioning systems

GT27

GT25

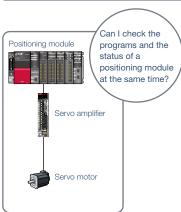
GT23

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C

GT21 G



Challenges

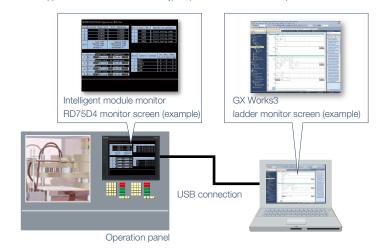


How can I debug positioning systems efficiently?

Solutions

You can debug positioning systems efficiently by displaying the data such as the status, parameters, and the I/O information of positioning module axes on GOT while monitoring positioning sequence programs on a personal computer simultaneously.

* For the details of supported devices and connection types, please refer to the relevant product manual.



Point!

Check the sequence programs and the status of a positioning module at the same time.

Alarm display function

End user

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C





- - -

Check alarm documentation stored on the GOT

GT27

GT25

GT23 GT21

GT Soft GOT2000*

 * GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

Challenges



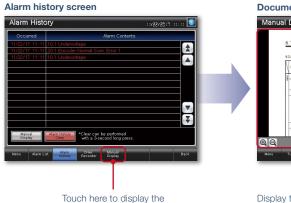


How can I easily identify the problem cause when an alarm occurs on a servo amplifier?

Solutions

GOT displays the alarm information of a servo amplifier by adding the alarm occurrence time using the clock data of the GOT. Use the document display function* to display the servo amplifier user's manual and quickly check troubleshooting procedures on the GOT.

 * The document display function is not supported by GT23 and GT21.



detail information

*Not supported by GT23, GT21.

Trung Gratuck status and analysis of the status analysis of the sta

Display the PDF data and check the alarm details and corrective actions

Point!

Check alarms of a servo amplifier on the on-site GOT and quickly solve the problem.



J4 Only!

Machine diagnosis function

Predict machine deterioration and improve system preventive GT27 maintenance without a need for personal computer

GT23 GT21

GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

Challenges

Solutions

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C







Belt loosened?





How can I predict deterioration of a machine if it has excessive load and is frequently accelerated?

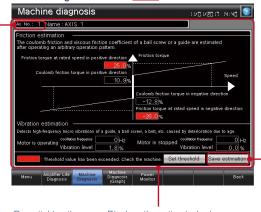
GOT can display estimated values (machine friction, torque vibration, etc.) that are collected by the machine diagnosis function of the servo amplifier. The difference between the initial value (at the

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. Guide deterioration?

Machine before operation

Vibration increased after starting operation

Machine diagnosis screen NEW



By switching the axis number. multiple axes can be maintained on the same screen.

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.

Descriptions of items on the machine diagnosis screen

	Item	Description
Esti	imated friction value	Detect the estimated static friction (coulomb friction) (including gravity and etc.) and dynamic friction (viscous friction) coefficient of guides or ball screws according to the operation patterns.
	Friction torque at rated speed (%)	Friction in operation at the rated speed. The value indicates the ratio (%) against the rated torque. The value increases as the machine deteriorates.
	Static friction (coulomb friction) (%)	Regardless of the motor speed, a constant value is applied to friction. When an object begins to move, the torque must be greater than or equal to the static friction (coulomb friction) torque. The value indicates the ratio (%) against the rated torque. The value increases as the machine deteriorates.
Vib	ration estimation	The vibration estimation function observes the torque vibration and estimates the vibration level and the vibration frequency of high-frequency micro vibrations. This function allows checking of the increase of vibration level and the change in the vibration frequency that are caused by deterioration of a guide, a ball screw, a belt, etc. due to age.
	Oscillation frequency (Hz)	Frequency of torque vibration when a machine vibrates during operation or it is not operating. The value indicates the frequency when the machine oscillates due to a cause such as deterioration of the machine due to age.
	Vibration level (%)	Torque amplitude when a machine vibrates during operation or it is not operating. The value indicates the ratio (%) against the rated torque. The value increases as the machine oscillation increases due to a cause such as deterioration of the machine due to age.

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

Friction estimation by using the machine diagnosis function

In order to estimate the friction by using the machine diagnosis function, the machine must be operated at high speed as well as at low speed for at least 150 seconds. Operation at high speed is the range that the motor speed absolute value is greater than or equal to the value of parameter PF31; operation at low speed is the range that the motor speed absolute value is less than the value of parameter PF31. (See Figure 1) In the case of the operation pattern shown in the Figure 1, if for the forward direction friction estimation (a)+(c) is more than 150 seconds and (b) is also more than 150 seconds, a friction estimation result can be obtained.

In the system that the operation speed does not exceed the value of parameter PF31, friction estimation can be performed by changing the value of parameter PF31. When the value of parameter PF31 is zero, the value half of the rated speed is the threshold value at high/low speed operation.

As stated above, friction estimation requires acceleration and deceleration of machine operation speed. When performing speed control or torque control, the speed is always kept constant so that friction estimation may not be performed.

- * PF31: Machine diagnosis function Friction judgment speed * For the details of the machine diagnosis function, please refer to MR Configurator2 Help.

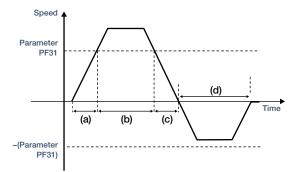


Figure 1. Servo amplifier operation speed



Without a personal computer, GOT can be used to predict the deterioration of the machine.

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NEW J4-GF(-RJ) Only!

Machine failure prediction function

End user Predictive maintenance

aintenance

Notify maintenance timing of equipment drive parts

GT27

GT25

GT23

GT Soft GOT2000

GF GF-RJ

Challenges

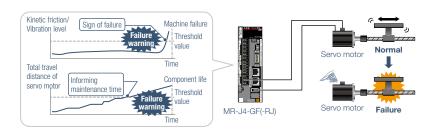
Servo motor Failure

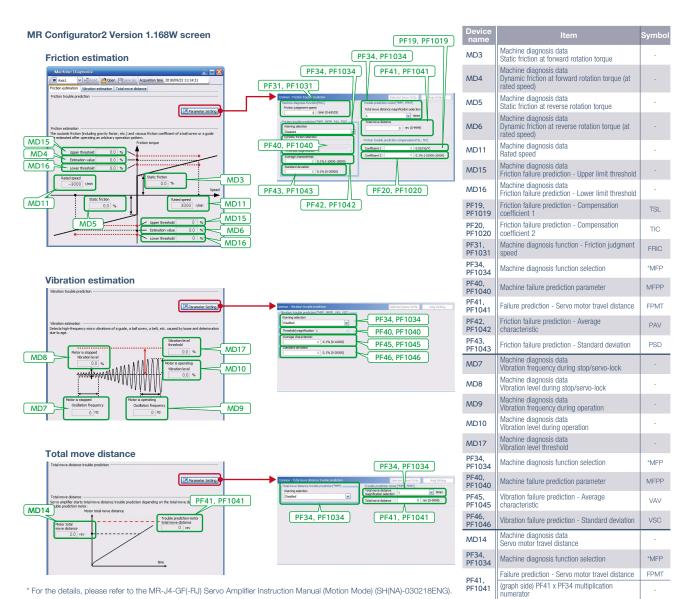
How can I perform predictive maintenance of equipment drive parts?

Solutions

By setting devices of MR Configurator2 machine failure prediction function to numerical display objects of GT Works3, you can predict deterioration of the servo amplifier drive parts on GOT.

* The failure prediction function can be used on MR-J4-GF(-RJ) servo amplifier with the software version A3 or later. This function does not guarantee prediction of all failures.







NEW

Switching axis numbers (station numbers) of servo amplifiers









Adjust and maintain multiple axes on a single screen

GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

GT27 GT25 GT23

GT21

Challenges

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C **Solutions**

GOT can be used to monitor axes of servo amplifiers by switching the axis numbers so that you can adjust and maintain multiple axes on a single screen. You can reduce the number of screens and also reduce the time for screen creation and equipment maintenance.

Switching axis numbers from 1 to 5







Enter 5 to the axis number to monitor the axis 5 of the servo amplifier

1 Name: AXIS



Point!

You do not have to create the monitor screens as many as the number of axes and can work efficiently.

J4 Only!

Servo amplifier life diagnosis function

Supports predictive maintenance functions of servo amplifiers

GT27 * GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

GT25

GT23

GT21

Challenges

Solutions

Servo amplifier life diagnosis screen



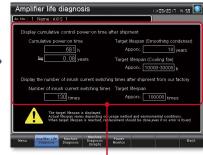
Can I check the life of capacitors and relays of servo amplifiers?

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C

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



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

By using with the GOT alarm function, you can notify the replacement timing of servo amplifier components to on-site workers.

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Sample screens

Easy to use sample screens of various interactive **functions**

GT27 GT25 GT23

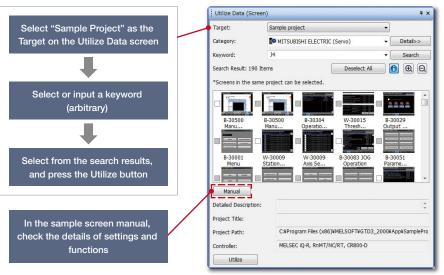
GT21

* GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

B B-RJ WB A A-RJ JE-B

Sample screens are available for connection between GOT2000 and servo amplifiers. You can change parameters, monitor the servo amplifiers, and perform test operations. To reuse sample screens, you can select the whole project or individual screens. Sample screens are included with GT Works3.

In the GT Works3 menu, select [Screen] → [Utilize Data].



[Screen specifications]

GOT type: GT27**-V (640 × 480)

GT2104-R (480 × 272) * The data can be used for GOTs with different

resolutions by changing the GOT type.

[Compatible language]

English, Japanese, Chinese (Simplified)

How to obtain sample screens

Sample screens are included with GT Works3. For the details, please contact your local sales office.

User-created screen

Create monitor screens by the users flexibly

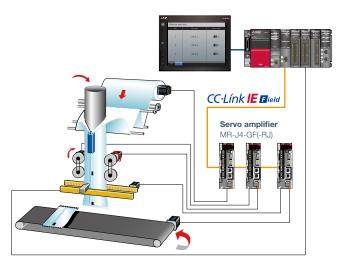
GT27 GT25 GT23

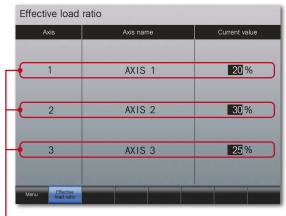
GT21

* GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C

Users can create screens and set data to be monitored flexibly. If there is no sample screens for the model you wish to use (MR-J4-GF(-RJ), MR-JE-A, MR-JE-C), monitoring is possible by setting the parameters and devices in the numerical displays and lamps. Various connection types can be used so that you can create screens depending on the system.





An example of displaying multiple axes information in one screen. Screens can be created flexibly to monitor necessary information.



NEW

Utilizing screen data

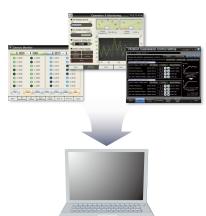
Easily utilize sample screens or existing project data

GT27 GT25 GT23 GT21 G

B B-RJ WB A A-RJ GF GF-RJ JE-B JE-A JE-C

* GT SoftGOT2000 supports MR-J4-B(-RJ), MR-J4W2-B, MR-J4W3-B, and MR-JE-B only.

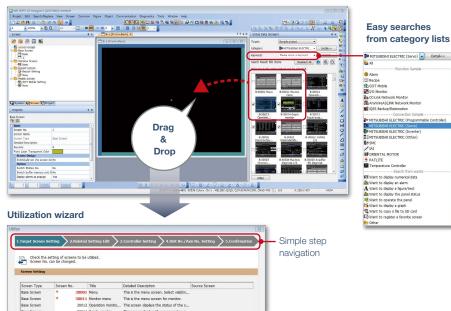
Challenges



How can I easily utilize screens from past project or sample project?

Solutions

Individual screens can be utilized from past projects and sample projects. Screens you want to utilize can be easily searched by using categories or keywords.



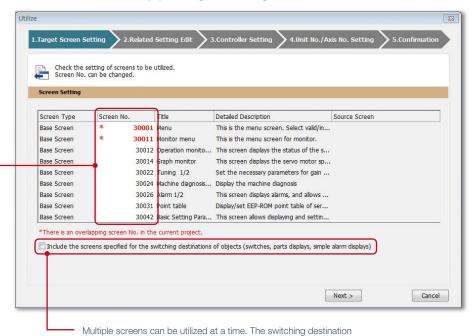
Point 1

Simultaneously utilize multiple screens by following the instructions in the wizard screen and simply configure settings

Utilization wizard: Target screen setting

Select multiple screens, then drag and drop to launch the utilization wizard.

The screen numbers that are duplicated with the editing project are displayed in red



screens of the selected screen are also utilized.

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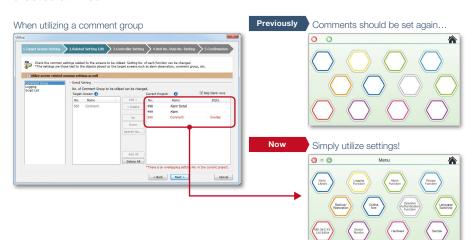
Point 2

Utilization wizard: Related setting edit

Comment groups and scripts related to the target screen can also be utilized at the same time.

The related settings are listed in the utilization wizard. Therefore, you can change the setting number while checking that the number is not used in the destination project

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

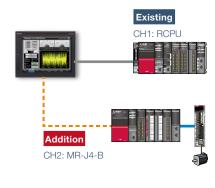


Easily change target screen controller settings

Utilization wizard: Controller setting

Target screen controller settings can be assigned to an empty channel in the currently editing project.





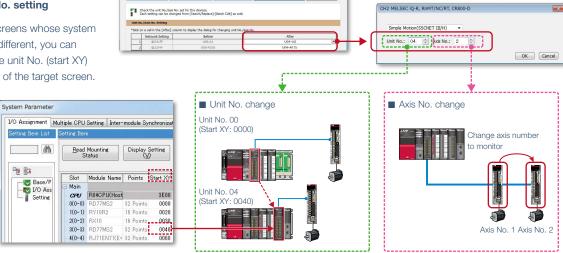
Point 4



You can change the Simple Motion unit No. and the servo amplifier axis No. to match the actual configuration at once

Utilization wizard: Unit No./Axis No. setting

When utilizing screens whose system configuration is different, you can easily change the unit No. (start XY) and the axis No. of the target screen.



You can easily change the unit No. and axis No. and can work efficiently.



Concept movie

Lineup





GOT2000 lineup

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

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

15 inch







12.1 inch AC







XGA 1024×768

GT2715-XTBA GT2715-XTBD

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

SVGA 800×600 GT2710-STBA GT2710-STBD

VGA 640×480 GT2710-VTBA GT2710-VTBD GT2710-VTWA [White model] GT2710-VTWD [White model]

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















SVGA

GT2512-STBA GT2512-STBD VGA

GT2510-VTBA GT2510-VTBD GT2510-VTWA [White model] GT2510-VTWD [White model] **VGA**

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

GT25 Rugged

RS-232 RS-422/485

10.1 inch











NEW



GT2510-WXTBD GT2510-WXTSD

GT2507-WTBD GT2507-WTSD

GT2507T-WTSD

Unchallenged cost performance

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

10.4 inch









VGA

GT2310-VTBA GT2310-VTBD VGA

GT2308-VTBA GT2308-VTBD

MITSUBISHI GRAPHIC OPERATION TERMINAL HISTORIAN SERVO AMPLIFIERS & MOTORS OF HELSER VO - J4



HMI/GOT Screen Design Software

Professional Designs in Just a Few Clicks

GOT Screen Design Software MELSOFT GT Works3^{+plus}

You can effectively use existing screen assets or design aesthetic screens with GT Works3, the software that can be commonly used for the GOT2000 Series.

Multi-touch gesture | Multimedia*2 | Video/RGB*2 | Sound output | External I/O

*2 Not supported by GT2705.



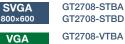












GT2708-VTBA GT2708-VTBD

5.7 inch





VGA 640×480 GT2705-VTBD







GT SoftGOT 2000 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.

HMI functionality in the palm of your hand

GT25 Handy

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

5.7 inch









GT2505-VTBD

6.5 inch









GT2506HS-VTBD

5.7 inch





VGA

GT2505HS-VTBD

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

12.1 inch







GT2512F-STNA

10.4 inch







8.4 inch





SVGA

GT2512F-STND

VGA

GT2510F-VTNA GT2510F-VTND VGA

GT2508F-VTNA GT2508F-VTND

Compact models with basic functions

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

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.

GT21 Wide

4.3 inch







3.8 inch





7 inch

GT2107-WTBD GT2107-WTSD

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



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



GOT2000





Graphic Operation Terminal

Designed to meet your industrial automation needs

The Graphic Operation Terminal GOT2000 Series continues to impress with solutions that fulfill all demands

The GOT2000 boasts advanced functionality, acts as a seamless gateway to other industrial automation devices, all while increasing productivity and efficiency. The high quality display is designed to optimize operator control and monitoring of device and line statuses. If you are looking for an intuitive operation terminal, the new tablet-like operability and the higher functionality of operation terminal makes the GOT2000 the ideal choice. Incorporate the GOT2000 to bring forth flexibility, productivity, and quality on a global scale.



For the details, please refer to the Mitsubishi Graphic Operation Terminal GOT2000 Series Catalog (L(NA)08270ENG).

MELSERVO-J4



MITSUBISHI SERVO AMPLIFIERS & MOTORS MELSERVO - J4

Man, machine and environment in perfect harmony MELSERVO-J4 – trusted technology makes an evolutionary leap forward

Introducing the MELSERVO-J4 series. Offering more than just improved performance, these servos are designed to drive the industries of tomorrow.

Backed by Mitsubishi leadership in all-digital technology, MELSERVO has become one of the most globally respected names in factory automation. And now – with the safety, ease of use, and energy-efficient design of the new MELSERVO-J4 series – man, machine and environment can at last work together in perfect harmony.



For the details, please refer to the Mitsubishi Servo Amplifiers & Motors MELSERVO-J4 Catalog (L(NA)03058).

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MELSEC Series PLCs always meet your system demands and more, with something to offer for any prospective control system.

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A diverse product range helps make you the right product choice

Day by day, in heavy industrial use, our frequency inverters prove their high levels of cost-effectiveness, reliability, functionality, and flexibility.



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MITSUBISHI MELFA industrial robot fits for cell manufacturing with high speed and high precision performance and combining intelligent technology. It has easy connectivity with Mitsubishi's PLCs and FA equipments.

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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

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- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger-carrying vehicles, consult with Mitsubishi Electric.
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