

FACTORY AUTOMATION



GOT2000 Series Drive Control Interactive Solutions





MITSUBISHI GRAPHIC OPERATION TERMINAL MITSUBISHI SERVO AMPLIFIERS & MOTORS ADDITIONAL MITSUBISHI SERVO AMPLIFIERS & MOTORS ADDITIONAL MITSUBISHI SERVO AMPLIFIERS & MOTORS ADDITIONAL ADDITICO ADDITICO ADDITIONA

Advanced drive control connectivity provides additional value to your system





× MELSERVO AMPLIFIERS & MOTORS NELSERVO-J4

Designed to suit your application and improve maintenance



MITSUBISHI GRAPHIC OPERATION TERMINAL CONTROL MITSUBISHI SERVO AMPLIFIERS & MOTORS //O-J4



GOT Drive

The GOT2000 provides advanced functionality and improves connectivity with Mitsubishi servo systems. It provides some functions of MR Configurator2 (supporting MR-J4). The new 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 Series Drive Control Interactive Solutions Movie



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 axes



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



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



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 axes

Drive control interactive functions, supported models, and GT Works3 versions

Supported drive control interactive functions and required versions of screen design software differ depending on the system configuration. Please refer to the following list.

										O: Supported	I ∆: Partially :	supported	: Coming soo	n ×: Not sup	ported at this	moment —: I	Not applicable
				Supported system configuration			Sup	ported syste	em configuration								
Function name P		Design	รเ	G	OT oort	ted	MR-J4	-A(-RJ)	MR-J4 MR-J4	-B(-RJ) 4W2-B	MR-J4-	GF(-RJ)	MR-	JE-A	MR-	JE-B	
			Page	GT27	GT2	GT23	15 3 GT21	Sample screen *1	Dedicated screen *2	Sample screen *1	Dedicated screen *2	Sample screen *1	Dedicated screen *2	Sample screen *1	Dedicated screen *2	Sample screen *1	Dedicated screen *2
		Drive recorder function	P.6	0	0	×	×	-	-	O (Ver.1.155M or later)	(Ver.1.155M or later)	×	×	-	-	×	A
		Machine diagnosis function	P.7	0	0	0	0	O (Ver.1.126G or later)	×	O (Ver.1.155M or later)	×		×	×	×	O (Ver.1.150G or later)	×
	Maintenance	Servo amplifier life diagnosis function	P.8	0	0	0	0	O (Ver.1.126G or later)	×	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		Alarm display function	P.10	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
	Adjustment	One-touch tuning function	P.8	0	0	0	0	O (Ver.1.126G or later)	×	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
	Adjustment	Tuning function	P.9	0	0	0	0	O (Ver.1.126G or later)	×	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		Servo amplifier monitor function	P.12	0	0	×	×	_	O (A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	-	_	-	_	-	×	-	_
		Intelligent module monitor function *4	P.12	0	0	×	×	-	O *3 (Ver.1.100E or later)	-	O (Ver.1.100E or later)	-	A	_	×	-	×
	Startup, adjustment	R motion monitor function *4	P.13	0	0	×	×	_	_	_	O (B: Ver.1.117X or later) (B-RJ: Ver.1.134Q or later)	_	_	_	_	_	_
		Q motion monitor function *4	P.13	0	0	×	×	-	_	-	(B: Ver.1.100E or later) (B-RJ: Ver.1.134Q or later)	-	_	-	_	-	_
		Motion SFC monitor function *4	P.13	0	0	×	×	-	-	-	O (Ver.1.100E or later)	-	-	-	-	-	_
Drive		JOG operation	P.14	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	A	×	×	×	O (Ver.1.150G or later)	×
control interactive functions	Test operation	Positioning operation	P.14	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		Output signal (DO) forced output	P.14	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	(Ver.1.155M or later)	×	A	×	×	×	O (Ver.1.150G or later)	×
		Operation monitor	P.15	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	(Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
	Monitor	Power monitor	P.9	0	0	0	0	O (Ver.1.126G or later)	X	(Ver.1.155M or later)	×	A	×	×	×	(Ver.1.150G or later)	×
		Input/output monitor	P.15	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	(Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		setting parameters	P.16	0	0	0	0	(Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		Gain/Filter parameters	P.16	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		setting parameters	P.16	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
	Parameter setting	setting 2 parameters	P.16	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		setting 3 parameters	P.16	0	0	0	0	(Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		I/O setting parameters	P.17	0	0	0	0	O (Ver.1.126G or later)	(A: Ver.1.100E or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	O (Ver.1.150G or later)	×
		servo /DD motor setting	P.17	0	0	0	0	(Ver.1.126G or later)	(A: Ver.1.126G or later) (A-RJ: Ver.1.134Q or later)	O (Ver.1.155M or later)	×	•	×	×	×	-	×
	Point table	FA	P.17	0	0	0	0	MR-J4-A-RJ only (Ver.1.126G or later)	×	_	_	×	×	×	×	-	_
		transparent function **	P.10	0	0	0	0	-	-	-	O (Ver.1.100E or later)	-	×	-	-	-	×
GOT fu	inctions	Restoration function	P.11	0	0	0	×	-	-	-	-	-	MR-J4-GF only (Ver.1.151H or later)	-	-	-	_
		launcher function *4	P.11	0	0	0	×	-	O (Ver.1.126G or later)	_	O (Ver.1.126G or later)	-	×	-	O (Ver. 1. 126G or later)	-	O (Ver.1.126G or later)

*1 The sample screen is the screen data that is included with GT Works3. The version in () indicates the version of GT Works3 that was used to create the sample screen. GT21 is not supported. (As of June 2016)
*2 The dedicated screen is the screen that is provided as the extended function of GOT. The version in () indicates the version of GT Works3 that supports the dedicated screen.

**2 The declacation can be used by connecting GOT and programmable controller.
 *4 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 are connected via Ethernet, and the programmable controller and the servo amplifier are connected via the CC-Link IE Field Network.

GOT Drive

NEW J4-B Only!

Drive recorder function

Check servo amplifier alarm information on the GOT

Challenges

I need to go to

the office to get a

PC to investigate

the problem

cause

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.

Sample

End

IISAI

OEM

GT25

В

GT27

Graph waveform screen



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

Trouble

B-RJ WB

GT23

GT21

Point!

In case of a system failure, is there a

simple and quick way to check the

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

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



В

B-RJ WB

Challenges



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

Point!

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.



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

MITSUBISHI GRAPHIC OPERATION TERMINAL MITSUBISHI SERVO AMPLIFERS & MOTORS

GT27

B-RJ

WB

J4 Only!

Machine diagnosis function

Samples End Preventive available user maintenance

Α

GT2:

Δ_R Ι

GT21

JE-B

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

Solutions

Challenges



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.

В



Machine before operation

Vibration increased after starting operation

Machine diagnosis 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
Estimated friction value		Detect the estimated coulomb friction (including gravity and etc.) and 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.
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 coulomb friction torque. The value indicates the ratio (%) against the rated torque. The value increases as the machine deteriorates.
Vibration 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 in the machine diagnosis function

Point!

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. * For the details of the machine diagnosis function, please refer to MR Configurator2 Help.



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

GOT Drive



One-touch tuning function OEM Easily adjust servos without a personal computer GT27 GT GT21 B B-RJ WB A A-RJ JE-B **Solutions**

Challenges



How can I check the status of servo amplifiers without a personal computer?

Point!

Just a single touch on the switch on the GOT screen. You can check adjustment results such as settling time and overshoot amount.



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

MITSUBSHI GRAPHIC OPERATION TERMINAL MITSUBISHI SERVO AMPLIFERS & MOTORS //O-J4

GT27

B-RJ

J4 Only!

Tuning function

Perform fine tuning of gain/filter parameters

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.

В



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

<complex-block>

OEM

Α

GT25

WB

GT:

A-RJ

GT2

JE-B

Vibration suppression control setting screen





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

J4 Only!



Use GOT and monitor the power information in a servo amplifier.



To manage specific consumption and observe demand, power consumption should be checked easily.

Point!



GOT can be used to check (visualize) power consumption and total power consumption without using measuring equipment such as a power meter or a personal computer.



Alarm display function

Check alarm documentation stored on the GOT

Challenges

What this alarm number indicates?

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

Solutions

Without opening a cabinet, current alarms, alarm history, and the detail information can be checked on GOT. Use the document display function* to display the servo amplifier user's manual and quickly check troubleshooting procedures on the GOT. * Not supported by GT23, GT21.

Samples available

GT27

B B-RJ WB

End

user

GT25

OEM

Α

GT23

A-RJ

Trouble

GT2

JE-B

Alarm display



Touch here to display the detail information

Document display * Not supported by GT23, GT21.



Check the details of the alarm

OEM

В

Ea

B-RJ WB

GT2

End

user

GT2

GT27



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

FA transparent function

Support system startup and adjustment

Challenges





Is it possible to debug programs without opening the cabinet?

Point!

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.

* On GT27/GT25 white models, GT25 open frame models, GT23 and GT21 models, use the interface on the rear face (USB device, Mini-B) to use the FA transparent function.



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

MITSUBISHI GRAPHIC OPERATION TERMINAL MITSUBISHI SERVO AMPLIFIERS & MOTORS //O-J4





System lau	ncher function	End user OEM Maintenance Trouble- shooting
Easily check the	module status of a controller system	GT27 GT25 GT23 GT21
Challenges	Solutions B	B-RJ WB A A-RJ JE-B JE-A
	A graphical configuration diagram indicates mod	ule statuses of motion controller systems (Q



Can I check the module status without using a personal computer every time I debug the module?

Point!

A graphical configuration diagram indicates module statuses of motion controller systems (Q Series) and programmable controller systems (MELSEC-Q Series, L Series). When you touch a module image, the extended function list is shown and you can carry out maintenance work efficiently.



After checking the error information of modules, just touch a module image and you can start extended functions that are available to the module. This function reduces the time for troubleshooting.

GOT **Drivë**

Servo amplifier monitor function

Support startup, adjustment of servo systems

Challenges

It's bothersome screen from scratch...

How can I check the status of servo amplifier easily?

Point!

Solutions

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

availabl

End

use

MR-J4-A	Servo amp.Monito	r [0St]	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	7.00 times
Cumulative command	0 pulse	Bus voltage	310 V
Command pulse	0 kbps	Encoder internal temperature	58 °C
Analog speed command voltage	-0.05 V	Settling time	2 ms
Analog torque	0.00 V	Oscillation detection frequency	0 Hz
Regenerative load	0 %	Tough drive times	0 times
Effective load	0 %	Unit power consumption	10 ₩
Peak load ratio	0 %	Unit total power consumption	10 🖬
Instantaneous	0 %		

Without creating screens, parameters can be monitored and written from dedicated screens. Sample screens (VGA)

OEM

GT25

GT21

A-RJ

GT23

GT27



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



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



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

GOTZOOOX MITSUBSHISERVOAMPLIFERS & MOTORS /0-J4 MITSUBISHI GRAPHIC OPERATION TERI







computer?

Point!

Touch a tab to display the program. X() = X() X 1000 = X 1000 Y 1FFF = X 1FFF Step/transition -The active step is Touch the step to display the detail program window. The SFC diagram scrolls automatically along with the 1000 progress of active steps. Detail program window EDC B Displays the program and the present value of the calculation control

Easily troubleshoot programs on GOT without a personal computer.

step/transition.

GOT **Drive**

Test operation

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

* Sample screens are not supported by GT21. Parameter values can be monitored using objects such as numerical displays and lamps.

JOG Operation 05/02/20 15 03: 33 💽							
Item	Current Value	Unit					
Cumulative Feedback Pulses		1234567890	pulse				
Servo Motor Speed		123456	r/min				
Droop Pulses		1234567890	pulse				
Cumulative Command Pulses		1234567890	pulse				
Command Pulse Frequency		123456	kpulse/s				
Regenerative Load Ratio		123456	%				
Effective Load Ratio		123456	%				
Peak Load Ratio		123456	%				
Instantaneous Torque		123456	%				
Within One-revolution Position		1234567890	pulse				
ABS Counter		123456	rev 🦳				
Load to Motor Inertia Ratio		1234.00	Multiplier				
Start JOG operation	300						
Accel./Decel. Time Constant	50	Fwd. Rot. F	Rev. Rot.				
Menu JOG Positioning Operation	Output Signal Forced Output		Back				

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

Positioning Operation								
Item	Current Value	Unit						
Cumulative Feedback Pulses	123456789	30 pulse 🛛 🕅						
Servo Motor Speed	12345	56 r/min						
Droop Pulses	123456789	90 pulse						
Cumulative Command Pulses	123456789	90 pulse						
Command Pulse Frequency	12345	56 kpulse/s						
Regenerative Load Ratio	12345	56 %						
Effective Load Ratio	12345	56 %						
Peak Load Ratio	12345	56 %						
Instantaneous Torque	12345	56 %						
Within One-revolution Position	123456789	90 pulse						
ABS Counter	12345	56 rev 📻						
Load inertia moment ratio	123.4	15 times 🛛 🚺						
Start positioning operation								
Motor Speed 123456	Fwd. Rev. Rot Rot	Restart						
Accel./Decel. Time Constant 123456								
Move Distance 1234567890	Smb	Clear						
Menu JOG Positioning Output Signal Operation Operation		Back						

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



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

GT27

JOG operation screen

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 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.

Output signal (DO) forced output screen

The screen can be used to forcibly turn on/off the output 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.

* 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.



GT25 GT23 GT21

Sample screens

MITSUBISHI GRAPHIC OPERATION TERMINAL GOTZOOOX MELSERI/O-J4



screen

B-RJ WB A A-RJ JE-B

GT23

GT25

Sample

GT21

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

Sample screens are not supported by GT21. Parameter values can be monitored using objects such as numerical displays and lamps.



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

Item Current Value Unit Oscillation Detection Frequency 123456 Hz Immes Number of Tough Drive Operations 123456 Immes Immes Unit Power Consumption 1234567890 W Immes Unit Total Power Consumption 1234567890 Wh Immes	Operation Mo	onitor 2/2	2	05/20	5/20 (S (S	: 12 💽
Oscillation Detection Frequency 123456 Hz Number of Tough Drive Operations 123456 Immes Unit Power Consumption 1234567890 W Unit Total Power Consumption 1234567890 Wh		ltem		Current Value	Unit	
Number of Tough Drive Operations 123456 umes Unit Power Consumption 1234567890 W Unit Total Power Consumption 1234567890 Wh	Oscillation Detection F	requency		123456	Hz	
Unit Power Consumption 1234557890 W Unit Total Power Consumption 1234567890 Wh	Number of Tough Drive	e Operations		123456	times	
Unit Total Power Consumption 1234567890 Wh	Unit Power Consumption	on		1234567890	W	
	Unit Total Power Cons	umption		1234567890	Wh	
						V
	011	80	797	000 000	73813	
Menu Operation Input/output Bac	Menu Operation Monitor	Input/output Monitor				Back

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

Input/	output	Monitor		0870 :120	:8 :0:27 🧕
Input Sign	al		Output Signal		
🔵 CN3-2		CN3-19	🔵 CN3-13	○ CN3	-09
🔵 CN3-12	2	🔵 CN3-20	🔵 CN3-15	CN3	-08
Input Devi	ce Status		Output Device	e Status	
CSON		EMG	RD	🔵 BWNG	SSV1
🔵 LSP		O EM2/1	🔵 SA	🔘 ALM2	SSV2
i LSN		CRDY	🔵 ZSP	🔵 RDY	STL1
🜔 PC		CDP	🔵 TLC	🔵 STO	STL2
🥥 RES		OLD	O VLC	😑 SMPD	ZPASS
😑 CSV1		URGNT	inp 📀	CDPS	SFLS
OSV2		FLS	🥥 WNG	🔵 CLDS	SRLS
i CTL1		RLS	i Alm	i ABSV	SDOG
🔵 CTL2		🔘 DOG	OP 🔘	🦲 IPF	SSV3
🔵 ST1			🔵 MBR	🔘 SPC	
ST2			OB 🔘	MTTR	
Menu	Operation Monitor	Input/output Monitor			Back

Operation monitor screen 1/2

В

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

GT27

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.

 $\boldsymbol{\ast}$ 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.
- 15

Got *Drivê*

Parameter setting

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

Sample screens are not supported by GT21. Parameter values can be monitored using objects such as numerical displays and lamps.

Bas	sic Se	tting Parameters (ROM) 1/2	05/28/20	16 15:08 🙆			
No.	Symbol	Name	Set Value	Unit			
PA01	**STY	Operation mode	1234 h				
PA02	**REG	Regenerative option	1234 h				
PA03	**ABS	Absolute position detection system	1234 h	NOTES NOTES AND			
PA04	*AOP1	Function selection A-1	1234 h				
PA08	ATU	Auto tuning mode	1234 h				
PA09	RSP	Auto tuning response	12345678				
PA10	INP	In-position range	12345678	pulse			
PA14	*POL	Rotation direction selection	12345678				
PA15	*ENR	Encoder output pulse	12345678	pulse/rev			
PA16	*ENR2	Encoder output pulse 2	12345678				
PA17	**MSR	Servo motor series setting	1234 h				
PA18	**MTY	Servo motor type setting	1234 h				
PA19	*BLK	Parameter block	1234 h				
PA20	*TDS	Tough drive setting	1234 h				
PA21	*AOP3	Function selection A-3	1234 h				
PA22	**PCS	Position control structure selection	1234 h				
PA23	DRAT	Drive recorder arbitrary alarm trigger setting	1234 h				
PA24 AOP4 Function selection A-4 1234h							
For any and the For any and the	For any parameter proceeded by 4 set the parameter values while work off once siter setting, and then switch to negative parameter the controller reserved to will be will be will be and then switch it on equipation the value parameter values witch power off once ofter setting. To RAM and then switch it on equipation if will be valid Basic Gain/Filter Extension Ko Setting Extension Extension Linear server						
Michi	(ROM) (ROM) (ROM) (ROM) (ROM)	4) (ROM	I) Setting(ROM)			

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

Gain/Filter Parameters (ROM) 1/3								
No.	Symbol	Name	Set Value	Unit				
PB01	PB01 FILT Adaptive tuning mode (Adaptive filter II)							
PB02	VRFT	Vib. supp. ctrl. tuning mode (Adv. vib. supp. ctrl. II)	1234 h					
PB03	TFBGN	Torque feedback loop gain	12345678	rad/s				
PB04	FFC	Feed forward gain	12345678	%				
PB06	GD2	Load inertia moment ratio	12345.00	Multiplier				
PB07	PG1	Model loop gain	123456.0	rad/s				
PB08	PG2	Position loop gain	123456.0	rad/s				
PB09 VG2 Speed loop gain 12345678 rai								
PB10	ms							
PB11	VDC	12345678						
PB12	OVA	Overshoot amount compensation	12345678	%				
PB13	NH1	Machine resonance suppression filter 1	12345678	Hz				
PB14	1234 h							
PB15	NH2	Machine resonance suppression filter 2	12345678	Hz				
PB16	NHQ2	Notch shape selection 2	1234 h					
PB17	NHF	Shaft resonance control filter	1234 h					
PB18	LPF	Low-pass filter setting	12345678	rad/s				
PB19 VRF11 Vib. supp. ctrl. 1 - Vibration frequency 123456.0 Hz								
For any and the For any and the	For any parameter proceeded by Aset the parameter value, switch power off once after setting, and then switch it on again or perform the controller reset, and it will be valid. For any parameter proceeded by Mset the parameter value, switch power off once after setting, and then switch it on again, and it will be valid.							
Menu		Basic Gain/Filter Extension I/O Setting Extens etting (ROM) Setting 1 (ROM) (ROM) (ROM) (ROM)	ion Extensi g 2 Setting /) (ROM	ion Linear servo g 3 /DD motor I) Setting(ROM)				

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

Extension Setting 1 Parameters (ROM) 1/2 05/25/20 (6 (5:01 Set Value Symbol Unit Name ERZ or excessive alarm level . Electromagnetic brake sequence output Encoder output pulse selection Function selection C-1 MBR ns *ENRS COP 4h C04 HCOP: Function selection C-2 Function selection C-3 205 24 H Zero speed Overspeed alarm detection level Analog monitor 1 output /min C08 MOD1 09 Analog monitor 2 output Analog monitor 1 offset Analog monitor 2 offset MOD2 mΫ Analog monitor - F/B pos. output standard data - Low Analog monitor - F/B pos. output standard data - High pulse 0000p unction selection (unction selection (nction selection To RAM Setting 3 (ROM) /DD n IBOM ROM

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

GT25

Sample

GT21

GT23

Basic setting parameters screen

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

GT27

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

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 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 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 sample screens are used to be a screen scr

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 OF MALE AND A MITSUBISHI SERVO AMPLIFIERS & MOTORS //O-J4

Parameter setting/Point table

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

Sample screens are not supported by GT21. Parameter values can be monitored using objects such as numerical displays and lamps.

1/0	I/O Setting Parameters (ROM) D5/25/2016 (5:1)2 💽								
No.	Symbol		Name			Set V	/alue	Unit	
PD02	*DIA2	Input signal auton		i	234h				
PD07	*D01	Output device se	lection 1				l234h		
PD08	*DO2	Output device se	lection 2			1	l234h		
PD09	*D03	Output device se	lection 3			1	234h		
PD11	*DIF	Input filter setting					234h		
PD12	*DOP1	Function selection	n D-1			1	234h		
PD13	*DOP2	Function selection	n D-2			1	234h		
PD14	*DOP3	Function selection	n D-3			1	234h		
PD15	*IDCS	Driver communication setting 1234h							
PD16	*MD1	Driver comm Master set - Transm. data sel. 1 1234 h							
PD17	*MD2	Driver comm Master set - Transm. data sel. 2 1234 h							
PD20	*SLA1	Driver comm S	Driver comm Slave set - Master ax. No. sel. 1 12345678						
PD30	TLS	Master/slave opr	Slave side torqu	ie cmd. Coeffi	cient	12345	678	%	
PD31	VLC	Master/slave opr Slave side spd. limit coefficient 12345678 %							
PD32	YLL	Master/slave opr Slave side spd. limit adj. value 12345678 r/min							
For any and the For any and the	For any parameter proceeded by Aset the parameter value switch power off once alter setting, and then switch it on again or perform the controller resetand it will be valid. For any parameter proceeded by Aset the parameter value switch power off once alter setting, and then switch it on again and it will be valid.								
Menu	י s ()	etting ROM) Gain/Filte (ROM)	r Setting 1 (ROM)	I/O Setting (ROM)	Settin: (RON	a 2 I)	Setting (ROM) Line 3 /DD 9 Setti	motor ng(ROM)

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

Linear servo motor/DD motor setting (ROM) 05/25/20 18 15:05 🚺							
No.	Symbol	Name	Set Value	Unit			
PL01	**LIT1	Linear servo motor/DD motor function selection 1	1234 h				
PL02	**LIM	Linear encoder resolution - Numerator	12345678	μm			
PL03	**LID	Linear encoder resolution - Denominator	12345678	μm			
PL04	*LIT2	Linear servo motor/DD motor function selection 2	1234 h				
PL05	LB1	Position deviation error detection level	12345678	mm			
PL06	LB2	Speed deviation error detection level	12345678	mm			
PL07	LB3	Torque/thrust deviation error detection level	12345678	%			
PL08	*LIT3	Linear servo motor/DD motor function selection 3	1234 h				
PL09	LPWM	Magnetic pole detection voltage level	12345678	%			
PL17	LTSTS	Mag. pole detn Min. pos. detn. methFunc. sel.	1234 h				
PL18	IDLV	Mag. pole detn Minute pos. detnIdent. sig. amp.	12345678	%			
·····							
For any parameter proceeded by Aset the parameter value, switch power off once after setting, and then switch it on again, or perform the controller reset, and it will be valid. For any parameter proceeded by Aset the parameter value, switch power off once after setting, and then switch it on again, and it will be valid.							
Men	4 S (Basic Gain/Filter Extension I/O Setting Extens etting (ROM) (ROM) (ROM) (ROM) (ROM)	ion Extensi g 2 Setting 1) (ROM	ion Linear servo g 3 /DD motor)) Setting(ROM			

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

Point table 06/0 1/20 16 09: 54 💽								
St.	:0 Name:							
	Target position	Rotation speed	Acceleration time constant	Deceleration constant	Dwell time	Sub function	M code	
	mm	r/min	ms	ms	ms			
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
123	123456	123456	123456	123456	123456	123456	123456	
					122			
Mei	nu Monitor	Diagnosis /adjustmer	t Point tabl	e Paramete Setting 1	r Parameter Setting 2	Test Operatio	on Ba	ck

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

B B-RJ W

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

GT27

- 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).

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.

GT25 GT23 GT21

B-RJ WB A A-RJ JE-B

Sampl

GOT **Drivë**



Easy to use sample screens of various interactive functions GT27 GT25 GT23

Solutions

Challenges

GOT2000 Serial, Ethernet, etc. Simple motion module Servo amplifier

It's good to have interaction functions but it's still hard to design setting screens from scratch...

change parameters, monitor the servo amplifiers, and perform test operations.
Sample screens are included with GT Works3.
For the details, please contact your local sales office.



[Screen specifications] GOT type: GT27**-V (640 × 480)

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

* Change the GOT type depending on your needs.

GT21

[Supported functions]

- · One-touch tuning function
- Tuning function
- · Power monitor function
- · Machine diagnosis function
- etc.

Sample screens are available for connection between GOT2000 and servo amplifiers. You can

[Compatible language] English, Japanese, Chinese (Simplified)

Using sample screens

JE-B MR-JE-B

In the GT Works3 menu, select [Project] \rightarrow [New] \rightarrow [Utilize Data].



JE-A MR-JE-A

GOTZOOOX MISUBSH SERVO AMPLIFERS & MOTORS

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GOT **Drivë**

GOT2000 lineup

The GOT2000 inherits all the features of our popular GOT1000 series, and introduces a more refined and advanced function set. The powerful and flexible lineup includes GOTs with various features and communication options to tackle any application you may encounter.

Concept movie



Lineup

GT27 model

Advanced model with multi-touch gesture functions





GT2715-XTBA GT2715-XTBD Resolution: 1024 × 768 Display color: 65536 colors



GT2712-STBA GT2712-STBD GT2712-STWA [White model] GT2712-STWD [White model] Resolution: 800 × 600 Display color: 65536 colors



High performance, cost efficient, mid-range model

Ethernet	CC-Link
RS-232	Bus
RS-422/485	MELSECNET
CC-Link IE Controller	

CC-Link IE Field*

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



12.1 inch

SVGA

GT2512-STBA GT2512-STBD Resolution: 800 × 600 Display color: 65536 colors



GT2512F-STNA (Open frame model) GT2512F-STND (Open frame model) Resolution: 800 × 600 Display color: 65536 colors



Ethernet	
RS-232	

RS-422/485







GT2310-VTBA GT2310-VTBD Resolution: 640 × 480 Display color: 65536 colors





GT2308-VTBA GT2308-VTBD Resolution: 640 × 480 Display color: 65536 colors

MITSUBISHI GRAPHIC OPERATION TERMINAL OF MATCHINE MITSUBISHI SERVO AMPLIFERS & MOTORS



Compliant with safety standards including UL Standards, maritime certifications, and radio laws. For inquiries relating to the status of conforming to various standards and laws (CE, ATEX [to be obtained soon], UL/cUL, Class I Division 2, EAC, KC, KCs [to be obtained soon], and maritime certifications [ABS/BV/DNV GL/LR/NK/RINA]), please contact your local sales office.

VGA

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

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







GT2710-STBA GT2710-STBD Resolution: 800 × 600 Display color: 65536 colors

GT2710-VTBA GT2710-VTBD GT2710-VTWA [White model] GT2710-VTWD [White model] Resolution: 640 x 480 Display color: 65536 colors



8.4 inch SVGA

GT2708-STBA GT2708-STBD Resolution: 800 × 600 Display color: 65536 colors

GT2708-VTBA GT2708-VTBD Resolution: 640 × 480 Display color: 65536 colors



5.7 inch

GT2705-VTBD Resolution: 640 × 480 Display color: 65536 colors

NEW

VGA



10.4 inch



GT2510-VTBA GT2510-VTBD GT2510-VTWA [White model] GT2510-VTWD [White model] Resolution: 640 × 480 Display color: 65536 colors

RS-232

RS-422/485



NEW

GT2510F-VTNA [Open frame model] GT2510F-VTND [Open frame model] Resolution: 640 × 480 Display color: 65536 colors



8.4 inch VGA

GT2508-VTBA GT2508-VTBD GT2508-VTWA [White model] GT2508-VTWD [White model] Resolution: 640 × 480 Display color: 65536 colors



GOT2000 compatible HMI software

105 .

Resolution: 640 × 480

GT2508F-VTNA [Open frame model]

GT2508F-VTND [Open frame model]

Display color: 65536 colors

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 Display color: 65536 colors * A separate license key must be mounted during use.



Ethernet **4.3** inch Wide



model

GT2104-RTBD [Ethernet, RS-232, RS-422/485] Resolution: 480 × 272 Display color: 65536 colors





GT2103-PMBD [Ethernet, RS-422/485] GT2103-PMBDS [RS-232, RS-422/485] GT2103-PMBDS2 [RS-232 × 2 channels] GT2103-PMBLS [RS-422] 5 ∨ DC type Resolution: 320 × 128 Display color: Monochrome (black/white) 32 shade grayscale Backlight: 5-color LED (white, green, pink, orange, red)



GOT2000



GOT2000

Graphic Operation Terminal

Designed to meet your industrial automation needs

The Mitsubishi Electric 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).

MITSUBISHI GRAPHIC OPERATION TERMINAL GOT 2000 × MELSERVO-J4

Related products

Mitsubishi Electric offers a wide variety of industrial devices to meet your needs.



The MELSEC Series takes control to the next level

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

Enhanced solutions are realized by a wide lineup of PLCs and network systems.



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.



Armed for productivity Industrial robots MELFA

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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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.

🔥 For safe use

- To use the products given in this publication properly, always read the relevant manuals before beginning operation.
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Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO 14001 (standards for environmental management systems) and ISO 9001 (standards for quality assurance management systems).





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