Advanced drive control connectivity provides additional value to your system.
Designed to suit your application and improve maintenance

Every worksite faces some challenges. The GOT2000 series provides various solutions to satisfy application requirements by integrating the functionality of operation terminals and drive control devices. By pairing drive control devices with powerful GOT2000, enhanced functionality will provide an essential solution for production facilities. Ultimately, the goal of this integration is to help you efficiently startup and maintain factory systems.
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Drive control devices are used in various types of applications. It is important to be able to monitor the performance of components in every aspect.

The GOT2000 from Mitsubishi Electric Corporation provides a new drive control connectivity solution. We integrated the functionality of operation terminals and drive control devices to eliminate the need for additional hardware and software.

The GOT2000 provides useful information to help with quick system startup, operation and maintenance.

**Why GOT and drive control integration is needed?**

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**Why GOT and drive control integration is needed?**

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<tr>
<th>System configuration</th>
<th>CASE 1</th>
<th>CASE 2</th>
<th>CASE 3</th>
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</thead>
<tbody>
<tr>
<td><strong>Supported</strong></td>
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</table>

**CASE 1**
- System configuration: Serial, Ethernet, etc.
- Simple motion module: (RD77MS/QD77MS/LD77MS/FX5-40SSC-S)
- Servo amplifier: MR-J4-B-RJ(MR-JE-B)

**CASE 2**
- System configuration: Serial, Ethernet, etc.
- Simple motion module: (RD77MS/QD77MS/LD77MS/FX5-40SSC-S)
- Servo amplifier: MR-J4-B-RJ(MR-JE-B)

**CASE 3**
- System configuration: Serial, Ethernet, etc.
- Motion controller: (R32MCPU/R16MCPU/Q17HDCPU/Q170MSCPU-S1)
- Servo amplifier: MR-J4-B-RJ(MR-JE-B)

**CASE 4**
- System configuration: Serial, Ethernet, etc.
- CC-Link IE Field Network simple motion module (CC770F16)
- Servo amplifier: MR-J4-B-RJ010(MR-J3-T10)
Easily adjust servos without a personal computer

**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**

Just a single touch on the switch on the GOT screen. You can check adjustment results such as settling time and overshoot amount. To obtain higher performance, you can adjust the model loop gain in the tuning screen.

**Solution points**

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

* For the sample screens, please refer to page 12.

Check the servo amplifier data on a GOT when an alarm occurs

**Challenges**

Servo data such as motor current and position command before and after the alarm occurrence can be read from the servo amplifier and displayed in a waveform.

**Solutions**

Servo data such as motor current and position command before and after the alarm occurrence can be read from the servo amplifier and displayed in a waveform.

**Solution points**

GOT reads and displays the data which is saved in a servo amplifier.

* It is also possible to save the data from a GOT to a USB memory and analyze it on a personal computer.
Predict aging deterioration of machines for easy preventive maintenance

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
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<tbody>
<tr>
<td>- How can I predict a machine life if it has excessive load and is frequently accelerated?</td>
<td>- By using the internal data of a servo amplifier, calculate machine friction and vibration and display them on a GOT. The difference between the initial value (at the startup) and the current value can be used to predict deterioration of the machine.</td>
</tr>
</tbody>
</table>

**Solution points**

- By using with the GOT alarm function, you can maintain drive components in timely manner.

**Before**

Machine before operation → Vibration increased after starting operation

**Machine diagnosis**

Check the machine status in a periodic inspection

Display power consumption and total power consumption on a GOT

<table>
<thead>
<tr>
<th>Challenges</th>
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</tr>
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<tbody>
<tr>
<td>- To manage specific consumption and observe demand, power consumption should be checked easily.</td>
<td>- Use a GOT and monitor the power information in a servo amplifier. Neither measuring equipment such as a power meter nor a personal computer is required since power consumption and total power consumption can be checked on the GOT.</td>
</tr>
</tbody>
</table>

**Solution points**

- Observe power consumption easily without a personal computer.

**Example of MR-J4-A(-RJ)**

- Calculation data
- Servo amplifier
- Personal computer

**Display power consumption and total power consumption on HMI**

MR-J4-A(-RJ), MR-JE-A: GT Works3 Ver.1.122C or later*
MR-J4-B(-RJ), MR-JE-B: GT Works3 Ver.1.144A or later*

*: For the sample screens, please refer to page 12.
Opening and closing the cabinet might interfere other work.

FA transparent function
Support system startup
Backup/Restoration function
Easily backup programs
Servo amplifier life diagnosis function

GOT supports preventive maintenance of servo amplifiers

<table>
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<tr>
<td>Points</td>
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</tr>
</tbody>
</table>

Solution points
Check cumulative operation time, on/off times of inrush relay, and replacement timing of servo amplifier components (capacitor, relay) on a GOT.

Servo amplifier life diagnosis

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 predict the replacement timing of servo amplifier components.

For replacement of servo amplifier components, please contact your local sales office.

Alarm display function (Document display function)

Check the detailed documents about alarms on a GOT

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<td>Points</td>
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</tr>
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</table>

Solution points
Current alarms and the alarm history can be displayed on a GOT. Use the document display function to display the servo amplifier user’s manual and check troubleshooting procedures on the GOT.

Alarm display

Document display: Excluding GT23, GT21

Touch here to display the detail information

Check the details of the alarm

Check the alarm detail on a GOT and quickly solve the problem.

For the sample screens, please refer to page 12.

MR-J4-A(-RJ), MR-JE-A: GT Works3 Ver.1.122C or later*
MR-J4-B(-RJ), MR-JE-B: GT Works3 Ver.1.144A or later*

MR-J4-A(-RJ), MR-JE-A: Not supported
MR-J4-B(-RJ): GT Works3 Ver.1.100E or later
MR-JE-B: Not supported

MR-J4-A(-RJ), MR-JE-A: GT Works3 Ver.1.130L or later*
MR-J4-B(-RJ), MR-JE-B: GT Works3 Ver.1.144A or later*
FA transparent function

Support system startup

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■ Before

Opening and closing the cabinet might interfere other work.

Is it possible to debug programs without opening the cabinet?

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.

By using the front USB interface on the GOT, you don't have to bother with opening the cabinet.

Backup/Restoration function

<table>
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■ Before

Is it possible to backup programs at a set time every day?

How can I backup programs of motion controllers periodically?

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
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- MELSOFT GX Works3
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Backup the data such as programs and parameters of MELSEC iQ-R Series, MELSEC-Q Series motion controllers onto the GOT’s 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 motion controller.

Production efficiency is maintained when the GOT is used to manage product change overs and maintenance recovery plans.
Support startup, adjustment of servo systems

**Challenges**

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

**Solutions**

Monitor and set parameters of up to three MELSEC iQ-R Series, MELSEC-Q Series motion controllers that are mounted on the same base.

- **Before**
  - Check motion SFC programs without a personal computer

- **Solutions**
  - **Solution points**
    - R motion monitor/Q motion monitor
      - Monitor and set parameters of up to three MELSEC iQ-R Series, MELSEC-Q Series motion controllers that are mounted on the same base.
        - Supported models:
          - R32MTCPU/R16MTCPU
          - Q173DSCPU/Q172DSCPU
          - Q170MSCPU(-S1)
          - Q170MCPU
          - Q173DCPU(-S1)/Q172DCPU(-S1)
          - Q173HCPU/Q172HCPU
          - Q173CPU(N)/Q172CPU(N)
        - Motion controller OS (MELSEC iQ-R Series) should be SV22.
        - 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.

- **Servo amplifier monitor**

In a system which outputs pulse strings, the GOT can perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.

- **Solution points**
  - Monitor and change servo parameters of a motion controller on a GOT.

---

Support debug of positioning systems

**Challenges**

Can I check the module status of programmable controller systems without using a personal computer?

**Solutions**

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

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

- **Solutions**
  - **Solution points**
    - **R motion monitor/Q motion monitor**
      - Monitor and set parameters of up to three MELSEC iQ-R Series, MELSEC-Q Series motion controllers that are mounted on the same base.

- **Servo amplifier monitor**

In a system which outputs pulse strings, 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.

- **Solution points**
  - Monitor and change servo parameters of a motion controller on a GOT.

---

**Intelligent module monitor function**

**Challenges**

How can I debug positioning systems efficiently?

**Solutions**

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

The FA transparent function can be used with programs such as GX Works and GX Works2 on your computer.

- **Before**
  - Check the sequence programs and the status of a positioning module at the same time.
Support startup, adjustment of servo systems parameters of a motion controller

How can I debug positioning systems efficiently by displaying the status, parameters, and the status of a positioning module at the same time?

Before

Challenges

Servo motor
Servo amplifier
Intelligent module monitor function
Servo amplifier monitor function
R motion monitor/Q motion monitor function,

Can I check the sequence programs and the status of a positioning module at the same time?

Solutions

Motion controller (Q Series) motion SFC programs can be monitored in a SFC diagram format. Viewing the program batch monitor or active step list enables you to check the complete status at a glance.

Solution points

Motion controller (Q Series) motion SFC programs can be monitored in a SFC diagram format. Viewing the program batch monitor or active step list enables you to check the complete status at a glance.

SFC diagram

Block tabs

Touch a tab to display the block.

Step/transition

The active step is highlighted. Touch the step to display the detailed program window of the relevant block. The SFC diagram scrolls automatically along with the progress of active steps.

© Easily troubleshoot programs on a GOT even without a personal computer.

System launcher function

Easily check the module status of programmable controller systems

Before

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

Challenges

Points

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

Solution points

© 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.
Sample screens

Easy to use sample screens equivalent to the screens of MR Configurator2

<table>
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| **NEW** | MR-J4-A/-RJ: GT Works3 Ver.1.126G or later
MR-J4-B/-RJ: Coming soon |

**What you can do with sample screens**

In addition to the “one-touch adjustment function”, “machine diagnosis function”, and “servo amplifier life diagnosis function” screens, various sample screens are available for your servo system maintenance.

- **Graph monitor**
  Displays the servo motor speed, peak load ratio, and bus voltage data collected using the logging function in numerical values and a historical trend graph.

- **Point table**
  Displays and sets point tables of the servo amplifier.

- **Basic setting parameters (ROM)**
  Displays and sets basic setting parameters of the servo amplifier.

- **Test operation: JOG operation**
  Allows a JOG operation test to be conducted.

- **Linear servo motor/DD motor setting parameters (ROM)**
  This screen allows displaying and setting the linear servo motor/DD motor setting parameters of the servo amplifier.

- **Test operation: positioning operation**
  Allows a positioning operation test to be conducted.

**Solution points**

Sample screens are available for connection between a GOT2000 and a servo amplifier (MR-J4). You can change parameters, monitor, and perform test operations of servo amplifiers.

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

**Using sample screens**

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

Select “Sample Project” as the Target on the Utilize Data screen

Enter “J4” as a keyword and click [Search]

In the search result, select a file name and click [OK]

In the sample screen manual, check the details of settings and functions

**Solutions**

MR-J4-A/-RJ: GT Works3 Ver.1.126G or later
MR-J4-B/-RJ: Coming soon

**Screen specifications**

GOT type: GT27-V (640 × 480)

* Change the GOT type depending on your needs.

**Supported functions**

- One-touch adjustment function
- Tuning function
- Power monitor function
- Machine diagnosis function etc.

**Points**

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

**Challenges**

Sample screens are available for connection between a GOT2000 and a servo amplifier (MR-J4). You can change parameters, monitor, and perform test operations of servo amplifiers.

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**Programmable controller**

Servo amplifier

RS-422

GOT2000

Points

Before

Easy startup

GT23

GT21

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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.

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.
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Man, machine and environment in perfect harmony
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Mitsubishi Electric offers a wide variety of industrial devices to meet your needs. The MELSEC Series takes control to the next level
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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.

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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Mitsubishi Electric offers a wide variety of industrial devices to meet your needs.
GOT2000 Series
Enhanced Drive Control and Monitoring Integration

Global Partner. Local Friend

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

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New publication, effective Nov. 2015.
Specifications are subject to change without notice.