Mitsubishi iQ Platform Compatible
Programmable Controller Engineering Software
MELSOFT GX Works2

The Next Generation in Industrial Programming
Increase productivity and lower the total cost of ownership. Introducing the next generation of IA programming software:

GX Works2

GX Works2 takes the next evolutionary step in user-centric design and operation.

GX Works2 supports a multitude of programming languages and allows them to be mixed and matched for amazing flexibility. GX Works2 focuses on driving down total cost by including features that speed up commissioning, reduce downtime, improve programming productivity, and provide strong security. With GX Works2, Mitsubishi has become the innovation leader in industrial automation programmable controller software.
Designed to solve existing problems and the unforeseen challenges ahead.

**GX Works2 supports your program development style by providing two project types and four programming languages.**

- Programming will primarily be done in ladder, and I want to be able to program complex formulae easily.
- I want to use existing GX Developer programs and maintain compatibility.
- I want a more user-friendly and feature rich version of GX Developer.
- I want to use structured ladder programs.
- I want to use program libraries.
- I want to develop projects based on the international standard IEC61131-3.
- I want to be able to manage projects effectively using multiple programs.
- I want to support for program libraries.
- I want to use structured ladder programs.
- I want to be able to use function blocks for common operations.
- I want to use program complex formulae easily.
- I want to ensure program changes are easily managed.
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- I want to use existing GX Developer programs and maintain compatibility.
- I want to be able to ensure complex programs are easily managed.
Increased Productivity

Work more efficiently with an improved user interface and a wealth of new features.

**Improved user interface**

GX Developer users will find the user interface familiar while discovering a wealth of improvements and completely new features.

- Use tabs to easily switch between programs, parameters, and other screens.
- Fully integrated intelligent function module management tools.
- Quickly identify each program and its execution type.
- Cross reference devices and labels with ease.

**Choose the appropriate language for each task**

**Support for 5 programming languages (future plan)**

Accomplish programming tasks more efficiently by utilizing the optimal programming language for any given operation.

**Application examples**
- Ladder: Logical relay control
- IL (Instruction List): Optimize program memory usage
- SFC (Sequential Function Chart): High speed execution
- ST (Structured Text): Efficient data handling
- FBD (Function Block Diagram): Process control

**Programming languages**
- PLC program
- IEC 61131-3
- IEC 61131-3
- IEC 61131-3
- IEC 61131-3

**Support for 5 programming languages (future plan)**: 5 languages whose guidelines are defined as languages for programmable controllers by the international standard IEC 61131-3.

**Keep large projects organized and easy to manage**

Manage projects effectively by using multiple programs.

- Divide complicated programs into separate parts by function or process to make them easier to follow and understand as a whole.

**Build on existing development investments**

**Import programs made with GX Developer**

Get the most from existing programs and hardware by upgrading to GX Works2. The advanced maintenance and debugging features can improve the reliability of existing systems. Importing to GX Works2 ensures future compatibility and increases flexibility in development.

**Supported languages**
- IEC 61131-3
- IEC 61131-3
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**Supported languages** (future plan)
- IEC 61131-3
- IEC 61131-3
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**Support for 5 programming languages (future plan)**

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** GX Works2 **
**Increased Productivity**

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**Crunch numbers easily in ladder programs**

**Inline ST (Structured Text)**

Include ST in a ladder program to deal with numerical and string operations. Using inline ST can save time in the program development process and is more efficient with program memory.

For example, perform the following calculations and convert the results to real numbers:
- When Signal01 is ON, divide the sum of Input01 and Input02 by Input03.
- When Signal01 is OFF, divide Input01 by Input03.

---

**Online monitoring with inline ST**

Monitor ST and ladder devices without having to change screens. Make changes to current device values using the same operation as with ladder programs. This dynamic view of associated data helps to speed up development and debugging processes.

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**By using inline ST instead of just ladder for these operations, the result is easier to read and saves program memory.**

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**Use the split-pane display to view the current value of word devices.**

---

**Edit current device values using the same method as standard ladder programs.**

---
**Use function blocks for common operations**

**What is a FB?**
Function blocks allow selections of commonly used code to be easily reused and shared among projects. Using them effectively results in faster development times with fewer programming mistakes.

**Function block selection window**
Function blocks can be easily saved to and recalled from the function block selection window. Add them to a program with simple drag-and-drop operation.

**Simplify complex programs using structured projects**

**Advantages of program structuralization**
Structured projects make it easy to logically separate code based on function. The resulting programs are easy to understand, debug, and modify.

**Utilize code libraries**
Create your own libraries of frequently-used program components or use existing ones to quickly accomplish programming tasks and save on development costs.

**Components contained in the library can be reused again and again over multiple projects.**

**Select the optimum language for each process.**

**Function blocks can be nested.**

**Reduce programming mistakes by using tested and proven components from the library.**

**Work more efficiently with an improved user interface and a wealth of new features.**
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**Increased Productivity**

**Intelligent function module management**

Configure modules without the need to reference a manual.

GX Works2 incorporates support tools for intelligent function modules right out of the box. All of the required information to configure and revise complicated parameter settings is included in the configuration tool so it is not necessary to reference a manual.

**Visualize positioning module buffer data**

**Trace function**

Monitor online or save and review motion command data such as speed, simultaneous start, and dual-axis interpolation routines using customizable graphs.
Increased Productivity

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Three new features to maximize work area effectiveness

**Docking windows**
- Quickly hide and recall docking windows to make the most of the available display area.

**Selective display of ladder blocks**
- Minimize selected ladder code to focus on relevant sections.
- Choose to display all ladder blocks for a standard view, or hide all to quickly scan through ladder statements and find the desired section.

**Screen tabs**
- Large projects can result in many open windows.
- Find and switch between them quickly using screen tabs.

To hide a ladder block, right-click and select "Non-Display Ladder Block".

Restore ladder blocks just by double clicking.

Minimized windows are displayed as tabs.

Docking window normal mode

Docking window minimized mode

Minimized windows are displayed as tabs.

Expand a chosen window to nearly 90% of the available display resolution.

Switch between windows by simply clicking the desired tab.

Even with the window maximized, the tabs are readily visible.

Even with the window maximized, the tabs are readily visible.

Even with the window maximized, the tabs are readily visible.
Increased Productivity

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**Time saving programming features**

*Symbol entry window instruction and label list*

The dynamic list of instructions and labels prevents mistakes and saves time. There is no need to memorize all of these data as they can be found quickly using the list.

*Label programming*

One benefit of using system labels is the ability to make system configuration changes without having to modify the associated programs.

**Rapidly edit ladder connections without changing the mode**

Hold down Ctrl and use the arrow keys (↑, ↓, →, ←) to draw and erase lines. Use Shift + Ctrl + (↑, ↓, →, ←) keys to edit continuous lines.

**Custom key bindings**

Select from default, GX Developer format (GPPA), or create custom key bindings and save them to a template. Different users can easily switch between templates.
Increased Productivity

Work more efficiently with an improved user interface and a wealth of new features.

Standard devices have pre-defined comments

Don’t waste time making comments for standard devices. Special relays and registers for each CPU have sample comments pre-defined. Intelligent function modules also have sample comments which can be easily imported.

Use the import function in the comment window to add pre-defined devices.

Import sample comments

Use the import function in the comment window to add pre-defined devices.

Memory size confirmation tool

This tool provides detailed information in table form and a pie chart for an at-a-glance understanding of memory resource allocation.

Easily determine memory space requirements for programs to be written to the programmable controller CPU.

View the usage details and contents of the connected CPU. Determine the available memory before and after writing to the CPU.

Don’t waste time making comments for standard devices. Special relays and registers for each CPU have sample comments pre-defined. Intelligent function modules also have sample comments which can be easily imported.

Increased Productivity

Increased Productivity

Detailed memory usage information

Increased Productivity

Increased Productivity

Easily change the view mode.

I need to make sure I have enough memory.

The table view reveals the size of each file.

Accelerated Debugging

Reduced Downtime

Robust Security

GX Works2

GX Works2
Accelerated Debugging

Reduce total cost by using features designed to help make debugging and maintenance tasks faster.

Advanced search functions

Cross reference

Quickly find all related labels and devices to an item by using this tool. Jump to the location of the results to confirm or make changes.

Search by device type

Include device type in your searches to narrow the results and avoid unintentional replacements. This is particularly useful when a device is used many times throughout a program.

Find and replace

Rename labels and apply the change in batch throughout all associated programs. Search for labels and devices using partial spellings.
Accelerated Debugging

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**Improved monitoring features**

**Program monitoring**
Examine the operational status of function blocks and programs in their respective languages. Observe and change device values the same way as a standard ladder program.

**Watch windows**
Use watch windows to make a list of values to monitor. Accomplish debugging tasks quickly by monitoring only the relevant data.

**Visualize changing values with custom timing charts**

**Sampling trace**
Trace changes in device and label values over time. Easily get an understanding of program and equipment operating status.

**Test run programs without PLC hardware**
GX Works2 includes simulator functionality as standard. Perform debugging tasks and confirm proper program operation even without access to PLC hardware.
Accelerated Debugging

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**Keep track of program changes**

**Project revision**

Easily keep track of different versions of the same project. By creating a revision entry, subsequent project saves do not permanently overwrite previous versions of the project. Details about each version can be easily seen in the revision list.

**Revision verification**

Easily identify what was changed and compare the differences between revisions using the verify function.

**Revision restoration**

If an unintended change is made, the project can easily be restored.

Select from the revision list

List of matches and mismatches between program files

Double click

Display the exact location of the mismatch

Add and review further information about each revision with as many details as necessary.

I want to restore the project to a specific date.

Easily identify when, who, and what.

Increased Productivity

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Robust Security
Reduced Downtime

Identify and recover from errors rapidly using comprehensive diagnostic tools.

System monitor

To quickly spot errors, an icon will appear next to malfunctioning modules based on the severity of the error. The interactive graphical system display provides immediate access to all of the diagnostic features and information about every module.

System error history

Simplify troubleshooting with a combined, time-stamped, error history list for CPUs and intelligent function modules. The details section provides explanations of error codes and suggested solutions.

Note:
Currently only Universal model QCPUs support this function. (with the first five digits of the serial number being 11043 or higher)

Supported intelligent function modules:
QJ71BT11N (first five digits of the serial number being 11042 or higher)
QJ71LP21-25, QJ71LP21S-25, QJ71LP21G, QJ71BR11, and QJ71NT11B (first five digits of the serial number being 11042 or higher)
(Other intelligent function modules will support this function in the future.)

Quickly identify the error, its cause, and solution without the need to reference a manual.

PLC diagnostics

From one central window quickly read error and status information, export log files to CSV, perform remote CPU operations like reset, stop, CPU memory format, and more.

Perform CPU remote operations

Detailed module information

Resolve intelligent function module issues quickly by clicking on a module to open this function.
All of the information relevant to the module is displayed here including error codes, their description, and possible solutions.

CC-Link IE controller network diagnostics

A visual display of every station on the network allows rapid identification of problems.
View detailed error information, monitor the status of other stations on the network, download error logs from connected stations, perform communication tests, and more.

Suspended stations or stations with parameter errors appear with a red “X”.
The location of faulty or improperly wired cables is immediately apparent.

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(Other intelligent function modules will support this function in the future.)
Robust Security

Protect your investments with advanced security features.

Control file access

User authentication

Prevent unauthorized access to project files by instituting user management.

If the user name and password are entered correctly, the project may be opened.

An incorrect user name or password will be unable to open the project.

Data security settings

Prevent unauthorized access to different parts of a project. Users can be compartmentalized and only given access to specific parts of a project.

Configure object access privileges

Project management server

Administrator

Programmer

User

I don’t want this data to be edited without proper authorization.

I can edit the data.

I can read the data but cannot edit it.

Protect intellectual property rights

Block password

Prevent unauthorized access, data modifications, and leaks

Protect individual program components with separate user independent passwords. These block passwords can add another layer of security in addition to user authentication and prevent the leak of valuable software assets.

Password registration

Protect intellectual property rights

Password registration

Protect individual program components with separate user independent passwords. These block passwords can add another layer of security in addition to user authentication and prevent the leak of valuable software assets.

Remote password

Prevent unauthorized access to different parts of a project. Users can be compartmentalized and only given access to specific parts of a project.

Programmable controllers connected to a network can be a risk. Secure them using remote passwords to stop unauthorized access.

Protect data with a password

Prevent data leaks by setting a block password.

Prevent software leaks and unauthorized changes by setting a programmable controller CPU access password.

Reduced Downtime

Increased Productivity

Accelerated Debugging
Operating Environment

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Computer</td>
<td>Microsoft® Windows Vista® Home Basic Operating System</td>
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<tr>
<td></td>
<td>Microsoft® Windows Vista® Home Premium Operating System</td>
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<td></td>
<td>Microsoft® Windows Vista® Home Business Operating System</td>
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<tr>
<td></td>
<td>Microsoft® Windows Vista® Ultimate Operating System</td>
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<tr>
<td>CPU</td>
<td>Desktop PC Intel® Pentium® Processor 2.6GHz or better, recommended. Laptop PC Intel® Pentium® M processor 1.7GHz or better, recommended</td>
</tr>
<tr>
<td>Memory</td>
<td>At least 512 megabytes (MB) of RAM / At least 512 megabytes (MB) of Virtual Memory</td>
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<tr>
<td>Hard disk drive</td>
<td>At least 1 gigabyte (GB) of available HDD space</td>
</tr>
<tr>
<td>DVD drive</td>
<td>CD-ROM compatible drive</td>
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<tr>
<td>Display</td>
<td>Resolution 1024 x 768 pixels or higher</td>
</tr>
<tr>
<td>Communication interface</td>
<td>At least one of the following: RS-232 port, USB port, or an Ethernet port</td>
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Supported Programmable Controller CPU

<table>
<thead>
<tr>
<th>Series</th>
<th>Model</th>
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<tbody>
<tr>
<td>Q series</td>
<td>QCPU</td>
</tr>
<tr>
<td></td>
<td>Q00U, Q05U, Q01U, Q02U, Q03U, Q05UD, Q01UD, Q02UD, Q03UDH, Q01UDH, Q02UDH, Q03UDH</td>
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<td>Q10UDH, Q13UDH, Q20UDH, Q26UDH, Q26UDEH, Q26UDEH</td>
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<td></td>
<td>High Performance-model QCPU</td>
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<td></td>
<td>Q00H, Q05H, Q01H, Q02H</td>
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<td></td>
<td>Basic model QCPU</td>
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<td>Q00J, Q05J, Q01J</td>
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<tr>
<td>FX series</td>
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<td>FX3G, FX3U, FX3UC</td>
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Product Information

### Single license product

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<tr>
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<th>Model</th>
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<td>3029</td>
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### Volume license product

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### Additional license product

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<td>SW1DNC-GXW2-6AZ</td>
<td>This product does not include CD-ROM. Only license certificate with the product ID number will be issued.</td>
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</table>

Manuals

The operating manuals are included on the CD-ROM with the software package. Manuals in printed form are sold separately for single purchase. Order a manual by quoting the manual number (model code) listed in the table below.

<table>
<thead>
<tr>
<th>Manual name</th>
<th>Supply status</th>
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<tbody>
<tr>
<td>GX Works2 Version 1 Operating Manual (Common)</td>
<td>Sold separately</td>
<td>SH-000777ENG</td>
<td>13J63</td>
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<tr>
<td>GX Works2 Version 1 Operating Manual (Simple Project)</td>
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<tr>
<td>GX Works2 Version 1 Operating Manual (Structured Project)</td>
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<td>GX Works2 Beginner’s Manual (Structured Project)</td>
<td>Sold separately</td>
<td>SH-000781ENG</td>
<td>13J67</td>
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| FX series | FXCPU
|          | FX0, FX0S, FX1, FXU, FX2C, FX1S, FX1N, FX1NC, FX2N, FX2NC |
|          | FX3G, FX3U, FX3UC |

Operating Environment

- CPU: Desktop PC Intel® Pentium® Processor 2.6GHz or better, recommended; Laptop PC Intel® Pentium® M processor 1.7GHz or better, recommended.
- Memory: At least 512 megabytes (MB) of RAM / At least 512 megabytes (MB) of Virtual Memory.
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- Communication interface: At least one of the following: RS-232 port, USB port, or an Ethernet port.

Product Information

- Single license product:
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- Volume license product:
  - GX Works2 Version1 (CD-ROM)
- Additional license product:
  - GX Works2 Version1

Manuals

- GX Works2 Version 1 Operating Manual (Common)
- GX Works2 Version 1 Operating Manual (Simple Project)
- GX Works2 Version 1 Operating Manual (Structured Project)
- GX Works2 Beginner’s Manual (Simple Project)
- GX Works2 Beginner’s Manual (Structured Project)
Mitsubishi iQ Platform Compatible
Programmable Controller Engineering Software
MELSOFT GX Works2

Precautions for Choosing the Products

This publication explains the typical features and functions of the Q Series programmable controllers and does not provide restrictions and other information on usage and module combinations. When using the products, always read the user’s manuals of the products.

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; opportunity loss or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

For safe use

- To use the products given in this publication properly, always read the “manuals” before starting to use them.
- The products have been manufactured as general-purpose parts for general industries, and have not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Sales office</th>
<th>Tel/Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>Mitsubishi Electric Automation Inc.</td>
<td>Tel: +1-847-478-2100</td>
</tr>
<tr>
<td></td>
<td>500 Corporate Woods Parkway Vernon Hills, IL 60061, USA</td>
<td>Fax: +1-847-478-0327</td>
</tr>
<tr>
<td>Brazil</td>
<td>MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda.</td>
<td>Tel: +55-11-3146-2200</td>
</tr>
<tr>
<td></td>
<td>Av Paulista, 1439-C, 72 Cerqueira Cesar CEP 01311-200, Sao Paulo, SP, CEP 01311-200, Brazil</td>
<td>Fax: +55-11-3146-2217</td>
</tr>
<tr>
<td>Germany</td>
<td>Mitsubishi Electric Europe B.V. German Branch</td>
<td>Tel: +49-2102-486-0</td>
</tr>
<tr>
<td></td>
<td>Goethe Strasse 6 D-40880 Ratingen, Germany</td>
<td>Fax: +49-2102-486-1120</td>
</tr>
<tr>
<td>UK</td>
<td>Mitsubishi Electric Europe B.V. UK Branch</td>
<td>Tel: +44-1707-276100</td>
</tr>
<tr>
<td></td>
<td>Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, UK</td>
<td>Fax: +44-1707-278992</td>
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<tr>
<td>Italy</td>
<td>Mitsubishi Electric Europe B.V. Italy Branch</td>
<td>Tel: +39-039-60531</td>
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<tr>
<td></td>
<td>Viale Colleoni 7-20041 Agrate Brianza (Milano), Italy</td>
<td>Fax: +39-039-6053312</td>
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<tr>
<td>Spain</td>
<td>Mitsubishi Electric Europe B.V. Spanish Branch</td>
<td>Tel: +34-93-565-3131</td>
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<td>Tel: +420-251-651-470</td>
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<td></td>
<td>Avenir Business Park, Radlicka 714/113a CZ-158 00 Praha 5</td>
<td>Fax: +420-251-651-471</td>
</tr>
<tr>
<td>Poland</td>
<td>Mitsubishi Electric Europe B.V. Polish Branch</td>
<td>Tel: +48-12-630-47-00</td>
</tr>
<tr>
<td></td>
<td>ul. Krakowska 50 32-083 Balice, Poland</td>
<td>Fax: +48-12-630-47-01</td>
</tr>
<tr>
<td>Russia</td>
<td>Mitsubishi Electric Europe B.V. Moscow Branch</td>
<td>Tel: +7-812-633-3497</td>
</tr>
<tr>
<td></td>
<td>52/3. Kosmodamianskaya nab., 110504, Moscow, Russia</td>
<td>Fax: +7-812-633-3499</td>
</tr>
<tr>
<td>South Africa</td>
<td>Circuit Breaker Industries Ltd.</td>
<td>Tel: +27-11-928-2000</td>
</tr>
<tr>
<td></td>
<td>Private Bag 2016,ZA-1600 Isando, South Africa</td>
<td>Fax: +27-11-392-2354</td>
</tr>
<tr>
<td>China</td>
<td>Mitsubishi Electric Autoalten (Shanghai) Ltd.</td>
<td>Tel: +86-21-2322-3000</td>
</tr>
<tr>
<td></td>
<td>17/F Chong Hing Finance Center,No.288 West Nanjing Road, Shanghai 200003 China</td>
<td>Fax: +86-21-2322-3000</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Satsuyo Enterprise Co., Ltd.</td>
<td>Tel: +886-2-2299-2499</td>
</tr>
<tr>
<td></td>
<td>6F., No.105 Wu-Kung 3rd Rd., Wu-Ku Hsiang, Taipei Hsien 248, Taiwan</td>
<td>Fax: +886-2-2299-2559</td>
</tr>
<tr>
<td>Korea</td>
<td>Mitsubishi Electric Automation Korea Co., Ltd.</td>
<td>Tel: +82-2-3600-9552</td>
</tr>
<tr>
<td></td>
<td>1480-4, Gayang-dong, Gangseo-gu Seoul 157-200, Korea</td>
<td>Fax: +82-2-3664-8372</td>
</tr>
<tr>
<td>Singapore</td>
<td>Mitsubishi Electric Asia Pte, Ltd.</td>
<td>Tel: +65-6470-2480</td>
</tr>
<tr>
<td></td>
<td>307 Alexandra Road #06-01,02, Mitsubishi Electric Building Singapore 159943</td>
<td>Fax: +65-6476-7439</td>
</tr>
<tr>
<td>Thailand</td>
<td>Mitsubishi Electric Automation (Thailand) Co. Ltd.</td>
<td>Tel: +66-2-517-1328</td>
</tr>
<tr>
<td></td>
<td>Bang-Chan Industrial Estate No.11 Soi Sathit 54, T.Kanlayao, A.Kanlayao, Bangkok 10230 Thailand</td>
<td>Fax: +66-2-517-1328</td>
</tr>
<tr>
<td>Indonesia</td>
<td>P.T. Autotechnik Sumber Makmur</td>
<td>Tel: +62-21-663-0833</td>
</tr>
<tr>
<td></td>
<td>Muara Karang Selatan Blok A/Utara No.1 Kav, No.11 Kawasan Industri/Pergudangan Jakarta-Utara 14440, P.O.Box 5045 Jakarta 11050, Indonesia</td>
<td>Fax: +62-21-663-0832</td>
</tr>
<tr>
<td>Australia</td>
<td>Messung Systems Pvt., Ltd.</td>
<td>Tel: +91-20-2712-3130</td>
</tr>
<tr>
<td></td>
<td>Electronic Sadan NO:III Unit No15, M.I.D.C Bhesari, Pune-411026, India</td>
<td>Fax: +91-20-2712-8108</td>
</tr>
<tr>
<td></td>
<td>Mitsubishi Electric Australia Pty., Ltd.</td>
<td>Tel: +61-2-9864-7777</td>
</tr>
<tr>
<td></td>
<td>348 Victoria Road, Rydalmere, N.S.W 2116, Australia</td>
<td>Fax: +61-2-9864-7245</td>
</tr>
</tbody>
</table>

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BUILDING. 5-7-3. MARUNOUCHI. CHIYODA-KU. TOKYO 100-8310. JAPAN
NAGOYA WORKS: 1-14. YADA-MENAMI 5. HIGASHIKU. NAGOYA. JAPAN

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