

**Title:** SigmaWin+ Version 7 Release Notes**Product(s):** SigmaWin+ Version 7**Doc. No.** SigmaWinPlus\_Ver.7

## About This Document

This document provides information related to the current and historic releases of Yaskawa's SERVOPACK Engineering Tool SigmaWin+ for Sigma-series AC SERVOPACKs. Read and understand this document to determine if SigmaWin+ should be updated for your usage.

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[06-2025]**

| # | Item                         | Category    | Description  |
|---|------------------------------|-------------|--|
| 1 | Supported SERVOPACK versions | Improvement | Supports Sigma-X up to firmware version 0013 (EtherCAT version 2.09).  |
| 2 | Tuning                       | Improvement | The autotuning travel distance has been increased when autotuning without a host controller. Applicable to Sigma-X models 0011 or later.           |
| 3 | Edit Parameters              | New Feature | Added the "Favorites" button, which gives the ability to register specified parameters to a category in the Edit Parameters screen.                |
| 4 | Edit Parameters              | New Feature | Added function to write parameters to all axes at once, under the Write Parameters button within the Edit Parameters screen.                       |
| 5 | Trace                        | Bug Fix     | In the Trace function, errors no longer occur when starting a trace if selecting a pressure-related item or current command as the trigger target. |
| 6 | Setup Wizard                 | Bug Fix     | The Setup Wizard can now be launched using Sigma-XW EtherCAT models.   |
| 7 | Parameter Names              | Bug Fix     | The parameter names and units have been corrected. (Pn240, Pn5C5, Pn5CD, Pn5CF, PnB36, PnB38).   |
| 8 | Function Screen              | Change      | The following changes have been made to the text on the SigmaWin+ Function screen:<br>"Master" → "MDevice"<br>"Slave" → "SDevice"                  |

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## SigmaWin+ Version 7.51 Release Notes (upgrade from version 7.50) [04-2025]

| # | Item             | Category    | Description  |
|---|------------------|-------------|--|
| 1 | Supported Models | Improvement | Supports latest version of Safety Option (ASM-X) with Sigma-X. |

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### SigmaWin+ Version 7.50 Release Notes (upgrade from version 7.45) [03-2025]

| #  | Item                         | Category                   | Description   |
|----|------------------------------|----------------------------|---|
| 1  | Supported Models             | New Feature                | Supports Safety Option (ASM-X) with Sigma-X.  |
| 2  | Safety Option Menu           | New Feature                | Support the setting function for the safety option (ASM-X). <ul style="list-style-type: none"> <li>When connecting online (or select offline) to a servo equipped with ASM-X, a safety-related menu will be displayed. If a user is not logged in using the login function, the safety-related menu will not be displayed even if the user is connected to a servo equipped with ASM-X.</li> </ul>  |
| 3  | Safety Encoder Menu          | New Feature                | Support the setting function for safety encoders. <ul style="list-style-type: none"> <li>When connecting online to a servo that has a safety encoder connected, a safety-related menu will be displayed. If a user is not logged in using the login function, the safety-related menu will not be displayed even if the user is connected to a servo with a safety encoder.</li> </ul>  |
| 4  | User Management              | New Feature                | The user management functions now include the "user settings" and "login" functions.  |
| 5  | Supported SERVOPACK versions | Improvement                | Supports Sigma-X up to software version 0011.   |
| 6  | Tuning                       | Improvement                | For SGDXS and SGDXT, the custom adjustment function and system tuning function now support "Mode 5" settings.   |
| 7  | Diagnostic                   | Improvement                | For SGDXT, the mechanical analysis function now supports a sampling time of 62.5 $\mu$ s (measurement frequency 6.4 kHz).   |
| 8  | Parameter Edit               | Improvement                | Improved parameter editing process. Adding shipping value, input range, and index number for Sigma-X. Sigma-X models have PnB98 displayed. When using DD motor with Sigma-7 models, Pn284 is displayed.   |
| 9  | Monitoring                   | Improvement                | For Sigma-XS Analog/Pulse model, Monitor handling was improved. Un14E (overload margin) is now displayed.   |
| 10 | Trace                        | Corrections & Improvements | Improved trace handling. <ul style="list-style-type: none"> <li>Fixed the problem that the parameter (Pn) value becomes "0" when connecting to a servo equipped with the Safety Module (SGDV-OSA01A) and saving trace data.</li> <li>Solved the problem that an error occurred when setting the pre-trigger to 50% and executing trace (standard) and then selecting and executing trace (high precision).</li> <li>Fixed the problem that the value of the horizontal cursor of the trace did not match the graph.</li> <li>Improved so that after tracing, tracing cannot be started again until the message "Tracing has been stopped" is displayed.</li> <li>Improved so that the external encoder speed (high precision) can be selected on Sigma-XW/XT models.</li> </ul> |

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| #  | Item                  | Category   | Description  |
|----|-----------------------|------------|--|
| 11 | Ripple Compensation   | Correction | Corrections to ripple compensation handling. <ul style="list-style-type: none"><li>• Fixed the problem that an error message would continue to be displayed if the USB cable was unplugged while measuring ripple compensation with a linear motor (<math>\Sigma</math>-7 compatible) or while the forward movement/reverse movement button was pressed on the movable range setting screen.</li><li>• Fixed the problem that the motor did not stop in some cases during ripple compensation operation.</li></ul> |
| 12 | MPE720 Link Function  | Correction | Correction to MPE720 link function. <ul style="list-style-type: none"><li>• In a configuration of 218IF-01 + SVB-01 + <math>\Sigma</math>-V, the problem that SigmaWin+ could not be started from MPE720 (system error: 0x42001422 occurred) has been fixed.</li></ul>   |
| 13 | Operating Environment | Removal    | Windows 8 is no longer supported.  |

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[05-2024]**

| # | Item           | Category    | Description   |
|---|----------------|-------------|---|
| 1 | Connection     | Improvement | Improved the connection time with the SERVOPACK.            |
| 2 | Parameter Edit | Improvement | Improved the startup speed of the parameter editing screen. |

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## SigmaWin+ Version 7.44 Release Notes (upgrade from version 7.43) [01-2024]

| # | Item    | Category    | Description  |
|---|---------|-------------|--|
| 1 | Sigma-X | New Feature | Sigma-X is now supported.  |
| 2 | Trace   | Correction  | Running a trace with a SERVOPACK combined with the Safety Option SGDVS-OSA01A no longer results in an error (code 0x31000012). |
| 3 | Trace   | Correction  | Negative values no longer appear as "0" when reading a trace file (*.std) and displaying the parameters.                       |
| 4 | Trace   | Correction  | SigmaWin+ no longer crashes when loading a Sigma-5 trace file (*.std).   |

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[01-2023]**

| # | Item                | Category    | Description   |
|---|---------------------|-------------|---|
| 1 | Supported OS        | Removals    | Windows 7 is no longer supported.   |
| 2 | Installation        | Improvement | USB drivers are now automatically installed when installing SigmaWin+.<br>NOTE: If the USB driver is already installed, it will not be updated.   |
| 3 | SERVOPACK Features  | Improvement | Supports the additional features of SERVOPACKS with Ver.0036.   |
| 4 | Trace               | Correction  | <ul style="list-style-type: none"><li>• Saving a trace setting file (*.stc) with the sampling period at 8000 us no longer changes to 2000 us after loading the trace setting file.</li><li>• Negative value is no longer 0 when "Display parameter" is performed on the trace screen.</li><li>• Tracing no longer fails if the axis number (line number) is not in ascending order of A axis/B axis in the module configuration definition.</li><li>• *.std files saved by SigmaWin+Ver.5 can be loaded again (could not be read using Ver.7.40 or 7.42).</li></ul> |
| 5 | Parameter Converter | Correction  | CSV file is now saved when selecting "Save conversion log (csv) at the same time".  |
| 6 | Installation        | Correction  | CamTool for MP3000 is no longer installed with SigmaWin.  |



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**[06-2022]**

| # | Item                | Category                     | Description   |
|---|---------------------|------------------------------|---|
| 1 | Supported OS        | Additions                    | Windows 11 is now supported.  |
| 2 | Supported Product   | Additions                    | Σ-MD EtherCAT is now supported.   |
| 3 | Mechanical Analysis | Additions                    | <ul style="list-style-type: none"> <li>Up to 10 previous results from performing Mechanical Analysis are now available to be displayed from the history dialog box.</li> <li>Printing superposed graphs is now possible.</li> </ul>   |
| 4 | Trace               | Improvements and Corrections | <ul style="list-style-type: none"> <li>The position of the pre-trigger on the graph is no longer slightly different than the set value.</li> <li>When the pre-trigger set value is changed to 0, the display of the trigger position on the graph now updates to 0 from the previous position.</li> <li>The cursor values are now completely displayed.</li> <li>The batch export destination folder is no longer set to the default value each time (the previous save destination is now retained).</li> </ul>  |
| 5 | Edit Parameters     | Improvements and Corrections | <ul style="list-style-type: none"> <li>The name of PnB24 bits 20 to 24 (SO1 to SO5) now matches the name in the SERVOPACK manual.</li> <li>The name of Pn475 now matches the name in the SERVOPACK manual.</li> <li>PnB02 and PnB04 no longer display as "Reserved".</li> <li>Σ-7 EtherCAT parameter PnB9C is now displayed.</li> <li>Pn50D.0 and Pn50D.3 contents are now correct (applies to SGDV-□□E[S/P]1 models).</li> <li>Pn550 and Pn553 are now displayed (applies to SGDV-□□E[1/2]1 models).</li> </ul>  |
| 6 | Ripple Compensation | Improvements and Corrections | <ul style="list-style-type: none"> <li>Ripple Compensation is now correctly performed after closing the function with the X button after clicking "Write to Servo". Previously, if closing the Ripple Compensation function with the X button, the SERVOPACK would be in the state before the Ripple Compensation was executed. Note: The related parameter is Pn423.0.</li> <li>When measuring the speed ripple with the Reverse button, the compensation effect of the speed ripple is now improved.</li> </ul> |
| 7 | Safety Module       | Improvements                 | Improved the function to clear A.EC0 and A.EC1.   |
| 8 | Scan                | Improvements                 | An error could be reported when attempting to connect to a SERVOPACK though a controller if Microsoft Visual C++ Redistributable was not installed. The installer now installs this component.  |

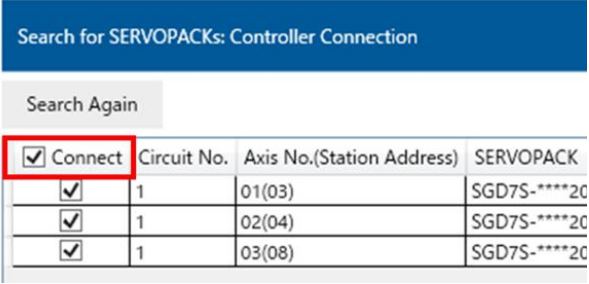
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| # | Item         | Category    | Description  |
|---|--------------|-------------|--|
| 9 | Setup Wizard | Corrections | <ul style="list-style-type: none"><li>• The Pn20A formula is now correct when a round table mechanical structure is selected with the setting to use a fully-closed encoder.<br/>The formula was: "sine wave pitch (cycle) count per load shaft rotation" ÷ "gear ratio"<br/>The formula is now: "sine wave pitch (cycle) count per load shaft rotation" × "gear ratio"</li><li>• Σ-7 EtherCAT parameters for electronic gear ratio for a (CoE) communications references SERVOPACK are now correct (was Pn20E and Pn210, is now PnB02 and PnB04).</li><li>• Σ-7 EtherCAT formula for electronic gear ratio is no longer missing "× 1/16" when set to not to use a fully-closed encoder.</li><li>• When the mechanical structure is belt and pulley, and the pulley diameter is set, the pitch formula is now correct (was "pulley diameter" ÷ π, is now "pulley diameter" × π). This is now also corrected for "rack and pinion" and "roll feed".</li></ul> |

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**[09-2021]**

| # | Item             | Category    | Description   |
|---|------------------|-------------|---|
| 1 | Supported Models | Addition    | Added support for SGD7S-□□□□□□□□F91, SGD7S-OSB01A, & SGD7S-OSB02A models.   |
| 2 | Trace            | New Feature | Trace function is overhauled. Major additions: 4 analog trace channels along with 4 I/O channels. Number of plot points increased from 1000, to 1024.<br><b>NOTE:</b> The <b>Print</b> function has been replaced with the <b>Copy to Clipboard</b> function. |
| 3 | Program          | New Feature | SigmaWin+ may be launched with multiple instances.<br><b>NOTE:</b> Connecting to products with multiple instance of SigmaWin + may degrade program responsiveness as the communication load increases.  |
| 4 | Trace            | Improvement | Added multi-axis support for trace data files.  |
| 5 | Trace            | Correction  | Corrected an issue that caused a SigmaWin+ error when SigmaWin+ was closed after importing an *.std file.   |
| 6 | Trace            | Correction  | Corrected the display of /HWBB1 and /HWBB2 in the Trace function for Sigma-7 MECHATROLINK-III models.   |
| 7 | Tuning           | Correction  | Corrected an issue that caused Sigma-7 motors to return to a previous state when starting the motor with Custom Tuning.   |
| 8 | Program          | Correction  | Corrected an issue that caused SigmaWin+ to terminate when connecting through a PCI or PCIe connection.   |

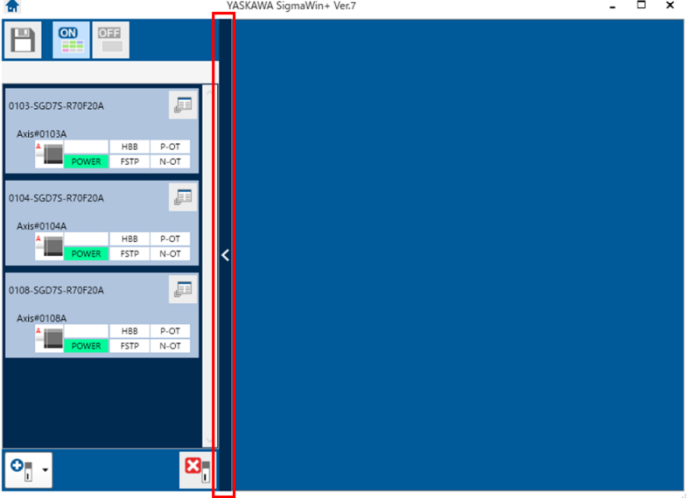

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**[10-2020]**

| # | Item                     | Category    | Description   |
|---|--------------------------|-------------|---|
| 1 | Axis Search function     | Improvement | <p>When selecting connected SERVOPACKs from the <b>SERVOPACK search results list</b>, all SERVOPACKs can now be selected at one time with the indicated checkbox.</p> <p>Communications Settings</p>    |
| 2 | Edit Parameters function | Improvement | The startup speed of the <b>Edit Parameters</b> window has been improved.   |
| 3 | USB driver               | Improvement | <p>The SigmaWin+ installer places the USB driver in the following location:</p> <p><b>[32-bit systems]</b> C:\Program Files\YASKAWA\SigmaWinPlus7\Driver</p> <p><b>[64-bit systems]</b> C:\Program Files (x86)\YASKAWA\SigmaWinPlus7\Driver</p> <p>This allows the user to delete the SigmaWin+ installer files, yet still be able to install the USB driver.</p> |

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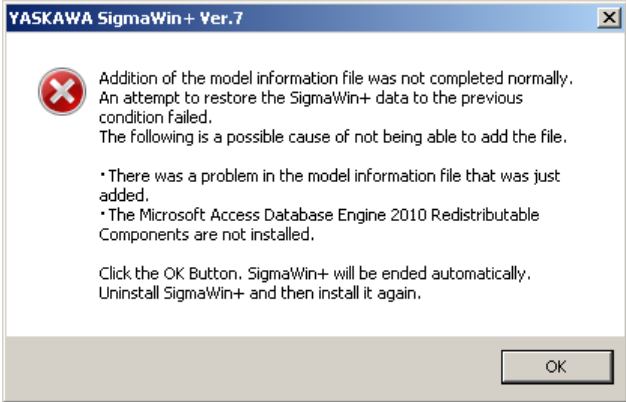
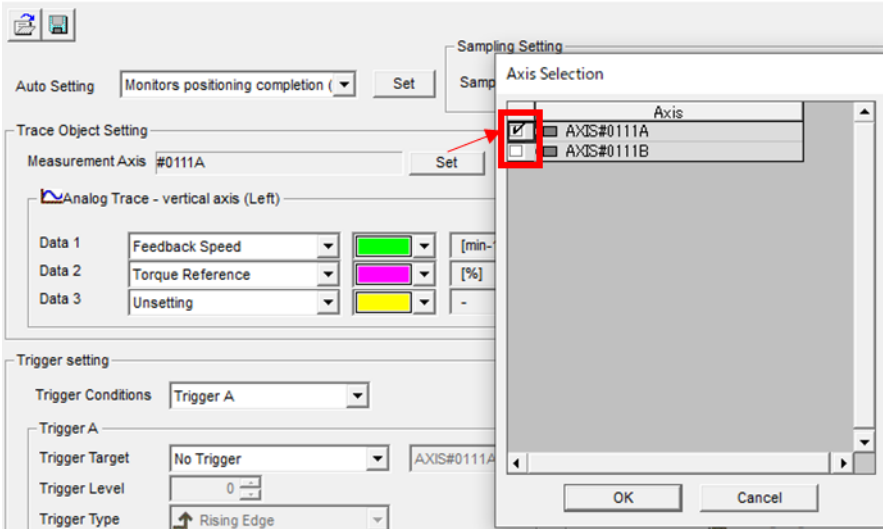
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| # | Item      | Category    | Description   |
|---|-----------|-------------|---|
| 4 | Workspace | Improvement | <p>The workspace may be expanded by pressing the indicated button.</p>  <p>The workspace may be retracted by pressing the indicated button:</p>  |

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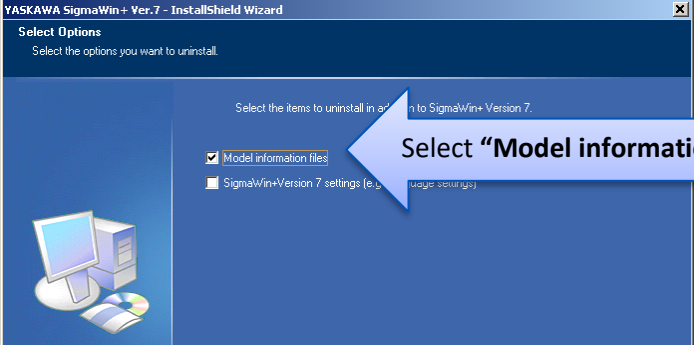
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| # | Item           | Category   | Description   |
|---|----------------|------------|---|
| 5 | Program Launch | Correction | <p>Previously, launching SigmaWin+ could result in the following error, if Microsoft Office (64-bit version) was installed.</p>  <p>One workaround was that a compiled database had to be obtained from Yaskawa and manually placed in the SigmaWin program directory. This issue is corrected.</p> |
| 6 | Trace function | Correction | <p>The checkmark for axis selection was not displayed for multi-axis SERVOPACKs in the <b>Trace</b> function. This issue is corrected, as shown:</p>    |

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| #  | Item                       | Category   | Description  |
|----|----------------------------|------------|--|
| 7  | Tuning function            | Correction | Using Windows 10, SigmaWin+ would stop working if the speed was manually decreased in the <b>Moment of inertia ratio estimation</b> function within the <b>Tuning</b> function. This issue is corrected.<br><br>Note:<br>After the speed is set and the notification message is displayed, SigmaWin+ would freeze when opening the <b>Reference Transmission</b> Window.   |
| 8  | Real-time tracing function | Correction | The two following issues have been corrected:<br>1. When <b>Real-time tracing</b> function is executed simultaneously on two axes, the /S-ON waveform repeatedly switches between ON and OFF regardless of the actual servo ON/OFF state.<br>2. When <b>Real-time tracing</b> function is executed simultaneously on two axes and one axis stops, SigmaWin+ stops working. |
| 9  | Search function            | Correction | If using SigmaWin+ through a motion controller, SigmaWin+ could not correctly connect to SERVOPACKs in a system that has multi-axis SERVOPACKs.<br>This issue is corrected.  |
| 10 | Standard MP                | Correction | If SigmaWin+ is started with MPE720 Ver. 7 (the programming environment for Standard MP controllers), SigmaWin+ stops working if a CSV (axis file) <b>Edit Parameters Import</b> function is executed with the CSV file already open.<br>This issue is corrected.  |

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**[05-2020]**

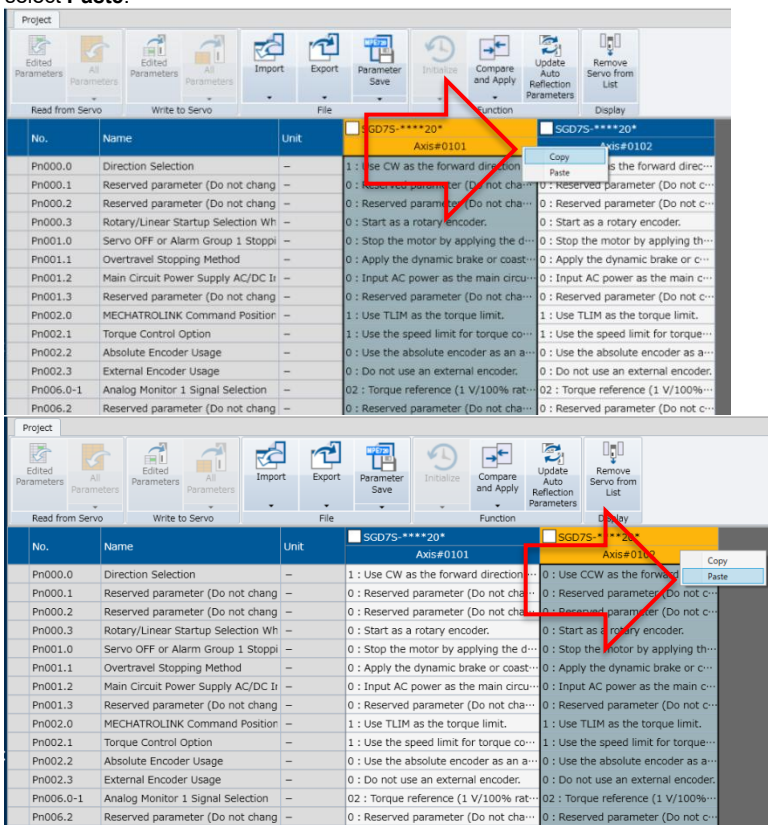
| # | Item                    | Category     | Description   |
|---|-------------------------|--------------|---|
| 1 | Model information files | Installation | <p>Old model information files must not be used.<br/>When upgrading to SigmaWin+ Version 7.31, uninstall any old versions of SigmaWin+ Version 7.x, and select the box as indicated in the image below.</p>  |
| 2 | Parameter additions     | Improvement  | <p>For Sigma-7S 100/200V SERVOPACKs with EtherCAT, added parameters PnB9C, PnBBE, PnBC0, PnBC2.<br/>Note: 400V models do not support these parameters.</p>  |
| 3 | Display                 | Improvement  | <p>Support for high resolution monitors.<br/>Also, corrections made to Trace function screen.</p>   |
| 4 | Standard MP             | Improvement  | <p>Various feature improvements when SigmaWin+ is started with MPE720 Ver. 7 (the programming environment for Standard MP controllers): Axis Parameter CSV Export &amp; Import, and Parameter comparison with project file.</p>   |



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| # | Item  | Category    | Description   |
|---|---|-------------|---|
| 5 | Copying parameters from one axis to another | New Feature | <p>Copy/Paste of parameters between axes, as shown in the images below.<br/> <u>To perform this function:</u></p> <ol style="list-style-type: none"> <li>1. Select the column to copy by clicking the axis name.</li> <li>2. Either use shortcut keys <b>Ctrl + C</b> to copy, or right-click to display the context menu and select <b>Copy</b>.</li> <li>3. Select the column to paste by clicking the axis name.</li> <li>4. Either use shortcut keys <b>Ctrl + V</b> to paste, or right-click to display the context menu and select <b>Paste</b>.</li> </ol>  |

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**[10-2019]**

| # | Item  | Category    | Description   |
|---|---|-------------|---|
| 1 | Forced termination  | Correction  | SigmaWin+ was terminated during operation. Several contributing factors have been identified and corrections have been made.  |
| 2 | SERVOPACK search results and connection                                     | Correction  | <p>When two SVC-01 were connected separately with SGD7W SERVOPACKs that have the same station address, and SigmaWin+ was connected to the SERVOPACKs via a machine controller, the SERVOPACK search function failed or a connection could not be established with a SERVOPACK even when the SERVOPACK was found.</p> <p>Another example of the problem was that the incorrect SERVOPACK was displayed in a SERVOPACK search result when axis numbers for one SGD7W and one SGD7S SERVOPACK were set as follows in MPE720 Ver.7.<br/>           SGD7W (first axis) 03:01<br/>           SGD7S: 04<br/>           SGD7W (second axis) 03:02</p> <p>This problem has been corrected.</p> |
| 3 | The button to add servo drives when SigmaWin+ is connected via MPE720 Ver.7 | New Feature | SERVOPACKS connected via MPE 720 Ver. 7 can now be added to the project with the "Add SERVOPACK" function within a project.   |
| 4 | Title display when SigmaWin+ is connected via MPE720 Ver.7                  | Improvement | The string (machine controller model+ project file storage location + project file name) is displayed in the title bar when SigmaWin+ is connected via MPE720 Ver.7   |
| 5 | Supports new product  | New Feature | SigmaWin+ 7.29 adds support for the following products:<br>SGD7S-□□□□C0   |
| 6 | User's Manual   | Improvement | <p>The User's Manual is now accessible without having to install SigmaWin+.</p> <p>It is found at:<br/> <a href="#">&lt;Directory of extracted Sigmaxin+ .zip archive&gt;\SIETS80000134*.zip</a></p>  |

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[07-2019]**

| # | Item                  | Category    | Description   |
|---|-----------------------|-------------|---|
| 1 | Supports new products | Improvement | SigmaWin+ 7.28 adds support for the following products: <ul style="list-style-type: none"><li>• 400V Sigma-7Siec</li><li>• 400V SigmaLogic7 Compact</li><li>• 400V SigmaLogic7 Modbus</li></ul> |

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## SigmaWin+ Version 7.27 Release Notes (upgrade from version 7.26) [12-2018]

| #             | Item  | Category    | Description  |               |              |              |              |              |              |              |              |              |  |
|---------------|---|-------------|--|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| 1             | Installation of FT components   | Improvement | SigmaWin+ now installs the FT components with the main program installer. Previous versions of SigmaWin+ required the FT components to be installed manually.  |               |              |              |              |              |              |              |              |              |  |
| 2             | Supports new SERVOPACK firmware   | Improvement | SigmaWin+ 7.27 supports new SERVOPACK firmware.  |               |              |              |              |              |              |              |              |              |  |
| 3             | Edit Parameter window, when connected with MPE720 using Ethernet Option Module 218IF-01/02    | Correction  | <p>Corrected the Edit Parameter not starting under the following condition:<br/>SigmaWin+ connection via MPE720 through the Ethernet Option Module 218IF-01 or 218IF-02.</p> <p>[Applicable Models]<br/>SERVOPACKs with MECHATROLINK communications</p> <p>Note: If SigmaWin+ is connected through a Controller, SigmaWin+ will not support communications via the Ethernet Optional Module (218IF-01/02).</p> |               |              |              |              |              |              |              |              |              |  |
| 4             | Parameter display: Pn493, Pn494   | Correction  | <p>Corrected the missing display of Pn493 and Pn494 that existed in SigmaWin+ version 7.26.</p> <p>[Applicable Models]</p> <table><tr><td>SGD7S-YYYY00</td><td>SGD7W-YYYY20</td></tr><tr><td>SGD7S-YYYY10</td><td>SGD7W-YYYY30</td></tr><tr><td>SGD7S-YYYY20</td><td>SGD7W-YYYYA0</td></tr><tr><td>SGD7S-YYYY30</td><td></td></tr><tr><td>SGD7S-YYYYE0</td><td></td></tr></table>                              | SGD7S-YYYY00  | SGD7W-YYYY20 | SGD7S-YYYY10 | SGD7W-YYYY30 | SGD7S-YYYY20 | SGD7W-YYYYA0 | SGD7S-YYYY30 |              | SGD7S-YYYYE0 |  |
| SGD7S-YYYY00  | SGD7W-YYYY20  |             |  |               |              |              |              |              |              |              |              |              |  |
| SGD7S-YYYY10  | SGD7W-YYYY30  |             |  |               |              |              |              |              |              |              |              |              |  |
| SGD7S-YYYY20  | SGD7W-YYYYA0  |             |  |               |              |              |              |              |              |              |              |              |  |
| SGD7S-YYYY30  |   |             |  |               |              |              |              |              |              |              |              |              |  |
| SGD7S-YYYYE0  |   |             |  |               |              |              |              |              |              |              |              |              |  |
| 5             | Input Signal names (SI1 to SI3) for the SERVOPACKs with analog voltage/pulse train references | Correction  | <p>The input signal names for CN1-41, CN1-42, and CN1-43 have been changed to the names used in the product manual:</p> <table><tr><th>Before Change</th><th>After Change</th></tr><tr><td>SI1 (CN1-41)</td><td>SI3 (CN1-41)</td></tr><tr><td>SI2 (CN1-42)</td><td>SI1 (CN1-42)</td></tr><tr><td>SI3 (CN1-43)</td><td>SI2 (CN1-43)</td></tr></table> <p>[Applicable Model]<br/>SGD7S-YYYY00</p>                | Before Change | After Change | SI1 (CN1-41) | SI3 (CN1-41) | SI2 (CN1-42) | SI1 (CN1-42) | SI3 (CN1-43) | SI2 (CN1-43) |              |  |
| Before Change | After Change  |             |  |               |              |              |              |              |              |              |              |              |  |
| SI1 (CN1-41)  | SI3 (CN1-41)  |             |  |               |              |              |              |              |              |              |              |              |  |
| SI2 (CN1-42)  | SI1 (CN1-42)  |             |  |               |              |              |              |              |              |              |              |              |  |
| SI3 (CN1-43)  | SI2 (CN1-43)  |             |  |               |              |              |              |              |              |              |              |              |  |
| 6             | Pn880 display   | Correction  | <p>The display of the Pn880 value was changed from the decimal number system to the hexadecimal number system.</p> <p>[Applicable Models]<br/>SGD7S-YYYY10<br/>SGDV-YYYY11Y</p>  |               |              |              |              |              |              |              |              |              |  |

**Title:** SigmaWin+ Version 7 Release Notes**Product(s):** SigmaWin+ Version 7**Doc. No.** SigmaWinPlus\_Ver.7

| # | Item                  | Category   | Description   |
|---|-----------------------|------------|---|
| 7 | Pn001 & Pn515 display | Correction | Pn001 and Pn515 are now displayed.<br>[Applicable Models]<br>SGD7S-YYYD30<br>SGD7S-YYYDA0 |