

GM Programmer Ver.1.3.3.0 Version-Up

Information you need to know before using the software (Essential reading)

About GM Programmer

GM Programmer is software that can set GM1 Controller, edit programs and download programs.

Caution

Be aware of the following points listed below.

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System Requirements

Make sure that the computer on which you intend to run the software meets the minimum specifications listed below.

OS	Microsoft Windows 10, 32bit/64bit ^{*1}
PC	PC with the below items installed <ul style="list-style-type: none"> • Microsoft.NET Framework4.6.1 or more • Microsoft Visual C++ 2010 SP1 Redistributable Package (x86) • Microsoft Visual C++ 2010 SP1 Redistributable Package (x64) • Microsoft Visual C++ 2013 Redistributable Package (x86) • Microsoft Visual C++ 2013 Redistributable Package (x64) • Microsoft Visual C++ 2015 Update 3 Redistributable Package (x86) • Microsoft Visual C++ 2015 Update 3 Redistributable Package (x64)
HDD	4GB or more
Memory	8GB or more
Communication Port	LAN Port (when connected via Ethernet) USB 2.0 Port(when connected via USB)

^{*1} Microsoft Windows 10 is registered trademarks of Microsoft Corporation in the United States and/or other countries

How to Install

Double-click the setup.exe file in the unzipped folder to launch the installer.
The installation screen will show up. Please follow the instruction to finish the installation.

GM Programmer Detailed Version-Up Information

Version-Up Information (Ver.1.3.2.0 to Ver. 1.3.3.0) (February 1, 2023 update)

The following points have been upgraded.

- Updated the included firmware from Ver.1.3.0.1 to Ver.1.3.0.2.

GM1 Firmware Detailed Version-Up Information

Version-Up Information (Ver.1.3.0.1 to Ver. 1.3.0.2) (February 1, 2023 update)

Corrected the following errors.

- Fixed a bug in the CNC function.

Version-Up Information (Ver.1.3.1.0 to Ver. 1.3.2.0) (September 26, 2022 update)

The following points have been upgraded.

Corrected the following errors.

- The motion task stops during error clear processing.
- Network settings may not be saved.
- The analog input/output settings may be not saved.
- Improved error judgment processing of PMC_Home and PMC_StopLatchPosition.

Version-Up Information (Ver.1.2.2.0 to Ver. 1.3.1.0) (June 13, 2022 update)

The following points have been upgraded.

- Added OPC UA server.
- Added the communication to display units. (Codesys V3 communication)
- Added FTP server.
- Added the project management. (SD backup and restore operating GM1 device directly)
- Added following the motion function block.
 - SMC_ChangeDynamicLimits
 - SMC_ChangeGearingRatio
 - SMC_SetMovementType
 - SMC_SetRampType
 - SMC_SetSoftwareLimits
 - SMC3_ReinitDrive (also RTEXX)
- Added following CNC function block.
 - SMC_RoundPath
 - SMC_SmoothPath
 - SMC_TRAFO_Bipod_Arm
 - SMC_GetMPParameters
 - SMC_PreAcknowledgeMFunction
- Added following G code.
 - G50,G51,G52
- Added following basic function block.
 - Calculation of Average,Maximum and Minimum
 - Linear Transformation , Range Monitoring , Flicker Circuit
 - String operation using WSTRING character
- Added backup and restore of persistent variables by the recipe function.
- Added the recipe function block.
- Added the project archive.
- Added the menu customization function of the tool.
- Added the setting of whether to write the IP address.

Corrected the following errors.

- When the old project is converted to the new version project, some parameter settings in the expansion unit changed to the initial value.
- When the parameter is changed to S acceleration / deceleration in the pulse output unit, the value is not saved correctly.
- The parameter of the input time constant of the digital input unit and digital input / output unit is not saved.
- The parameter of the high-speed counter using 4 digits and more values cannot be set correctly in some OS.
- Improved various UI displays.

Version-Up Information (Ver.1.2.1.0 to Ver. 1.2.2.0) (February 1, 2022 update)

The following points have been upgraded.

- Added following CNC function block.
 - SMC_NCDecoder
 - SMC_CheckVelocities
 - SMC_Interpolator
 - SMC_TRAFO_Polar
 - SMC_TRAFOF_Polar
 - SMC_ControlAxisByPos
- Added following G code.
G20,G36,G37,G53,G54,G55,G56
- Added the SD card recipe function
- Added following function.
Data Type Conversion, Memory Operation, CRC Calculation
- Added following basic function block.
Memory Operation

Corrected the following errors.

- When E point control using PG_MoveRelative or PG_MoveAbsolute is executed, Pulse Output Unit may stop suddenly.
- Even if you enter the parameters within the set range for Analog Input Unit, it may be displayed as out of the set range and you may not be able to set it.
- When the task interval of MotionTask is changed, the changed task interval is not reflected unless the screen of EtherCAT slave setting is displayed.
- Improved various UI displays.

Version-Up Information (Ver.1.0.1.0 to Ver. 1.2.1.0) (October 13, 2021 update)

The following points have been upgraded.

- Added following models.
 - GM1 Controller EtherCAT type
 - Digital output Unit(PNP)
 - Digital I/O Unit (PNP)
 - Analog input Unit
 - Analog output Unit
 - Pulse output Unit
- Supported firmware update by GM Programmer (USB/LAN).
- Supported PID instructions(PD、PID、PID_FIXCYCLE).
- Added following RTEX function block.
 - RTEX_WriteCommand
 - RTEX_ReadResponse
 - RTEX_WriteEEPROM
 - RTEX_DoAcylicCommand
- Changed the maximum number of virtual axes to 20 regardless of the number of real axes.
- The operation mode of GM1 Controller RTEX type can be changed to RUN mode regardless of the running status of the MINAS.

Corrected the following errors.

- GM Programmer cannot be connected to GM1 Controller by USB in Windows 10(32bit).
- Changed pre-installed EDS file for FP-XH.
- The screen cannot be closed automatically in uninstallation while GM Programmer is running.
- The screen displayed in multi-display cannot be come back to main display after disconnecting it.
- Error message is displayed when the dialog of Function Block Guidance is restored after minimized.
- The display of the operand setting screen cannot be switched by operand button after maximizing Function Block Guidance dialog.
- Incorrect error No. is displayed in Status screen and System Data History screen.
- Occurred command value error(Err.27.4) when the servo is from off to on after making a home return in modulo setting.
- Failed clearing the multi-turn data by RTEX_ClearAmpMultiTurnData.
- Incorrect stop postion after executing PMC_StopLatchPosition.
- Improvement of various UI displays.