Allen-Bradley

Micro800 Programmable Controllers

Catalog Numbers Bulletin 2080

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About This Publication

These release notes supplement the existing documentation supplied with your product.

Read this document before using Micro800™ controllers with FRN 1 operating system firmware.

Firmware Revision History

Firmware Revision History for Micro810 Controllers

Revision	Description
1.011	First release
1.012	Second release
1.013	Third release

Firmware Revision History for Micro830 Controllers

Revision	Description
1.011	First release
1.012	Second release
1.013	Third release

Anomalies

Corrected Anomaly for Firmware Revision 1.013, Micro810 controllers

Anomaly	Description
RHC instruction in Micro810 controllers is not accurate	The RHC function block uses a time base of 49.86 μs and returns counter times 5, instead of a 40 μs timer with a return counter times 4. APBC00005186

Corrected Anomalies for Firmware Revision 1.013, Micro830 controllers

Anomaly	Description
CRC errors and timeouts in Modbus packet communications	When using the MSG_MODBUS instruction to communicate with any other Modbus Slave devices that require turnaround delay, setting TriggerType in LocalCfg to 1 may cause increased failure rates in modbus packets received/transmitted. Introduce a turnaround delay, such as 5 ms, at a user program level. APBC00005317 / APBC00005339

Corrected Anomalies for Firmware Revision 1.013, Micro830 controllers

Anomaly	Description
High Speed Counter (HSC) instruction configuration causes controller Hard Reset	The following conditions may cause a controller Hard Reset. • Value of HSCAppData underflow setting (UFSetting) and low preset setting (LPSetting) more than or equal to 0. • Value of HSCAppData overflow setting (OFSetting) and high preset setting (HPSetting) less than or equal to 0. • Setting the HSC user interrupt parameter for underflow (Mask for IN) to True, when counting up with HSC Mode 0 or 1. APBC00005342
High Speed Counter (HSC) user interrupt does not work for 10/16-point controllers	HSC ID HSC1 does not work for 2080-LC30-10QVB/QWB, and 2080-LC30-16QVB/QWB. APBC00005198
Universal Plug-In Module (UPM) interrupt configuration causes controller Hard Reset	Adding UPM interrupts in the Interrupt Properties page may cause a controller Hard Reset APBC00005332 / APBC00005357
Generic plug-in module's controller status byte may report inaccurate information	The Controller Status Byte may inaccurately report an Operation Error during normal RUN mode or on "Power Failure Triggered". Internally developed UPM modules do not use the Controller Status Byte. Such modules are not affected by this anomaly. Third party UPM modules that are based on the Generic Plug-in module specifications and that use the result of the Controller Status Byte to perform certain actions, however, may be affected. APBC00007064

Corrected Anomaly for Firmware Revision 1.012, Micro810 and Micro830 controllers

Anomaly	Description
The controller may report a fault (error code 0xD011) when continuously powered on for more than 49.71 days	Under certain conditions, when the controller is continuously powered on for more than 49.71 days, the controller may report a recoverable fault (error code 0xD011), and the outputs will be disabled. Certain time based instructions may not operate correctly within the 3 ms window immediately after 49.71 days. On Micro810 controllers, the power LED goes off. The LCD display changes from RUN mode to FAULT mode. On Micro830 controllers, the fault LED flashes red. APBC00006019 / KnowledgeBase ID 450489

Known Anomaly for Firmware Revision 1.013 Micro810 controllers

Anomaly	Description
ErrorMode parameter does not handle errors	ErrorMode input of IPIDCONTROLLER instruction does not handle errors as expected and does not recognize any input values. APBC00006755

Known Anomalies for Firmware Revision 1.013 Micro830 controllers

Anomaly	Description
ErrorMode parameter does not handle errors	ErrorMode input of IPIDCONTROLLER instruction does not handle errors as expected and does not recognize any input values. APBC00006755
ControlFlash firmware update results in a red flashing fault	Even when a ControlFlash update is successful, the Micro800 controller shows a fault code of 0xF004 (Memory Module transfer error), and the status indicator flashes red. This occurs when the firmware update is performed on a controller with a physical Memory module inserted, and with a user program in that memory module which has the “Load Always” or “Load Always on Memory Error”set. Clear the fault and use the controller normally. APBC00005287

Known Anomalies for Firmware Revision 1.013
Micro830 controllers

Anomaly	Description
Modbus configured target address returns illegal address error	A Modbus client read to a valid Modbus boundary address of 65535 in the controller results to an illegal address error in the client. APBC00007660
Fault translation error	Error code is not handled properly as soft fault EP_WDT_EXPIRED (0xD011) in a user interrupt POU is translated as hard fault EP_WDT_HARDFAULT (0xF002). APBC00007864
STI configuration reloaded when UID and UIE are used	STI is erroneously disabled and then reloaded whenever UID and UIE are used so STI program may not execute at the configured periodic rate. Both UID and UIE functions are normally used to mask and unmask user interrupts in the user program to prevent conflict with simultaneous references to the same variables. APBC00007923

Firmware Update

Instructions on how to flash update your controller with the latest firmware is provided in the User Manual for your Micro800 controller. See Additional Resources for the link to your online user manual.

To get the latest firmware for your Micro800 controller, go to the following links:

- Firmware for Micro810
- Firmware for Micro830

Once on the page, go to the Resources tab, then click Firmware to download the latest firmware.

Additional Resources

These documents contain additional information concerning related Rockwell Automation products.

Resource	Description
Micro810 Programmable Controllers User Manual, publication 2080-UM001	A more detailed description of how to install and use your Micro810 programmable controller and expansion I/O system.
Micro830 Programmable Controllers User Manual, publication 2080-UM002	A more detailed description of how to install and use your Micro830 programmable controller and expansion I/O system.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://www.rockwellautomation.com/literature/. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

Notes:

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At http://www.rockwellautomation.com/support/, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit http://www.rockwellautomation.com/support/.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/support/americas/phone_en.html, or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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