

Technical Bulletin

Mercury 310 Controller Firmware Release: H7.05RC2

SUBJECT: New Mercury 310 Controller Firmware Release h7.05RC2

DATE: 10/2025

OPERATORS: All operators using the Mercury 310 Controller

FIELD PROGRAMMING DEVICE: USB flash drive

FILENAME: Mercury310update_H7_05RC2_09_05_2025.bin

IMPACT: New fix for Juno operators

IMPORTANT NOTICE!

A factory reset is performed automatically on startup after updating from older firmware.

NOTE: After firmware update, normal operator provisioning will have to be performed. This includes re-learning limits and other settings.

NOTE: Production release and manual updates pending.

NEW FEATURES

◆ None.

CHANGES/ENHANCEMENTS

- ◆ Updated maximum run time:
 - Learn mode run time timeout set to 2 minutes.
 - Run time timeout when position is unknown is set to 2 minutes.
 - Run time timeout when position is known is set to 1 minute for swing gates and 1 min 30s for slide gates (Juno).
- ◆ Updated default deceleration points for Juno to prevent the gate from running past the limit.

KNOWN ISSUES

- ◆ USB Drive causes odd and unpredictable gate behavior.
 - Odd and unpredictable behavior includes the gate running past the limit, and/or starting to open or close without a user input.
 - If odd gate behavior is observed while a USB drive is installed to gather logging data, then remove the USB drive immediately. A power cycle of the Mercury controller is recommended after removing the USB drive.
 - Use a different USB drive for firmware upgrades and data logging.

UPGRADE INSTRUCTIONS

- ◆ Place the firmware upgrade file on a USB drive (FAT file system).
 - If the firmware upgrade file is within a .zip file, then extract the firmware upgrade file (binary file format .bin) and copy it to the USB drive.
 - Do not place the firmware upgrade file in a folder. It must be on the root of the USB drive.
- ◆ On the Mercury 310 controller, press and hold the firmware upgrade button (located next to the USB port) until “bL” is displayed to enter the bootloader.
- ◆ Insert the USB drive containing the firmware upgrade file.
- ◆ The upgrade should be finished within 5 seconds and will automatically reset and show the new firmware version on the display during startup.
 - It is recommended to leave the USB drive inserted after upgrading to enable data logging. Logs are stored on the USB drive and can provide valuable information for troubleshooting at installation sites.

NOTE: The USB drive can be safely removed when the USB LED is OFF.