

Technical Bulletin

Mercury 310 Controller Firmware Release: h7.04

SUBJECT: New Mercury 310 Controller Firmware Release h7.04

DATE: 07/2025

OPERATORS: All operators using the Mercury 310 Controller

FIELD PROGRAMMING DEVICE: USB flash drive

FILENAME: Mercury310update_H7_04.bin

IMPACT: New features and fixes.

IMPORTANT NOTICE!

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

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

NEW FEATURES:

- A detection code is displayed during the limit learn procedure when the gate is running at slow speed. Additionally, if a motor is already learned, a detection code is displayed when the function knob is turned to LRN MOTOR 1 or LRN MOTOR 2.
- New limit LED indication for Vanguard such that the limit LED flashes when the first edge of the limit magnet is detected by the magnet sensor. The limit LED becomes solid when the limit magnet is aligned with the magnet sensor. (See Vanguard 3501 installation manual with Mercury 310 Controller pages 32-33). <https://support.hysecurity.com/hc/en-us/articles/360043160974-Vanguard-3501-Installation-Manual-with-Mercury-310-Controller>.
- New encoder indication is shown by the right decimal point LED of the display during gate movement.

TABLE 1 – DETECTION CODES

DISPLAY	CODE	DESCRIPTION
d1	d1	816 linear actuator
d2	d2	Titan linear actuator
d3	d3	Vanguard motor
d4	d4	Juno motor

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CHANGES/ENHANCEMENTS:

- Improved IES handling during acceleration for linear actuators.
- Updated motor detection thresholds for Vanguard and Titan for more reliable Vanguard motor detection during learning.
- Updated error code 7 (Er 07 - encoder not detected) to be more broadly used and not limited to a learning error. This error will be displayed for a short time if the encoder is not detected within 3s of a gate open/close cycle.

LINKS:

Download firmware from <https://support.hysecurity.com/hc/en-us/categories/360003202873-Software>
For update instructions, refer to page 44 of the Mercury 310 Installation and Programming Manual (<https://support.hysecurity.com/hc/en-us/articles/4404808203927-Mercury-310-Installation-and-Programming-Manual>).