

Firmware 15.90 Release Notes

Horner Automation has released a new Firmware revision for the following Micro OCS Series products only: **X4, X7 and X10**.

This is available for download from the firmware section at the following websites:

North American Website <https://hornerautomation.com/controller-firmware>

European Website <http://www.hornerautomation.eu>

NOTE: This Firmware release requires a bootloader to be installed and is not optional.

Latest System File Revisions for the Micro OCS Series	
Firmware	15.90
BIOS	X4 – 0.34, X7 – 0.14, X10 – 0.08
CPLD	1.2

A NOTE ABOUT FIRMWARE UPDATES:

This firmware has been thoroughly tested, and every precaution has been taken to prevent the introduction of new issues that may be problematic in your application. It is always important for customers to perform their own internal system testing before deployment of the new firmware.

Firmware 15.90 – New Features		Affected Controllers: X4/X7/X10
1.	Added support for OCSIO DQM602.	
2.	Added retain variables support for Variable-Based Advanced Ladder (VBAL). Note: Requires Cscape version 10.1 onwards.	
3.	Added System Register bit for system menu access. Note: Requires Cscape version 10.1 onwards.	
4.	Added “Alpha Filter Constant” function for analog inputs. Notes: <ul style="list-style-type: none"> • Requires Cscape version 10.1 onwards • Ranges from 1 – 10 (1 refers to 0.01 filtering and 10 refers to 0.1 filtering) • The lower the value, the heavier the filtering 	

Firmware 15.90 – Bug Fixes		Affected Controllers: X4/X7/X10
#	Main Subject	Description
1.	Momentary button	Resolved: The momentary button was behaving as if it was a toggle button when it was placed at the top right corner of the screen.
2.	Read RM block (for ASCII data)	Resolved: Read RM block was reading entire elements/data for an ASCII data type instead of reading only the configured number of elements.
3.	WebMI – Time / Date object	Resolved: Time/date object was not displaying data correctly on web pages when the user refreshed the web pages.
4.	ASCII TCP/IP	Resolved: User was seeing a delay of up to 10 seconds when trying to trigger a data write operation in ASCII TCP/IP Client protocol (when the slave device was re-establishing the connection) Notes: <ul style="list-style-type: none"> • Provided a setting in the protocol network configuration to control the serverion reconnection interval (Fast-2 Seconds, Medium-5 Seconds, Slow-10 Seconds). • This requires ASCII TCP/IP Protocol dll v5.04 onwards.

Firmware 15.90 – Known Issues			Affected Controllers: X4/X7/X10
#	Subject	Description	Workaround
1.	Load Clone	The Load Clone feature with password-protected Autoload.pgm files; If the correct password is not entered before the timeout, all subsequent attempts to Load will not work, even if the correct password is entered within the timeout period.	Clear the application, cycle power to the controller, and perform Load Clone with the correct password before the timer expires.
2.	Backup Register	The Backup Register feature takes a long time (about 500ms) impacting the Scan Rate in Run mode.	N/a
3.	WebMI license on the System Menu	The WebMI license details on the System Menu are not shown if the Ethernet cable is removed.	Connect the Ethernet cable to check the WebMI license.
4.	Plugging and unplugging of the Micro SD card	At times, a hardware fault error and watchdog trip occur on a device when the Micro SD card is plugged and unplugged continuously.	N/a
5.	Bootload using Mini-USB	Bootload using mini-USB is not working when using Cscope and STM utility v 2.8.	Use USB-to-serial for bootload updates.
Firmware 15.90 – Known Issues			Applicable to X10 only
1.	System Menu pop-up delay	There is a delay of about 1.5-1.8 seconds for the System Menu screen to pop-up after pressing the System Key on an X10	Increase the graphics time slice from 10ms to 20ms.

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