



OCS Firmware 12.4x Release Notes

OCS Firmware 12.40/12.42

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OCS Firmware Revision 12.4x Available for Immediate Download

Summary

Horner APG announces the availability of Firmware Revision 12.4x for the following OCS controllers; XLe, XLt, XL6, NX, LX, and QX. This is available for immediate download from www.heapg.com and www.horner-apg.com. This is a very significant new release offering a variety of new features and product improvements.

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 prior to deployment of new firmware.

Who Should Upgrade to Firmware Revision 12.4x

- Users of the OCS product families XLe, XLt, XL6, NX, LX and QX – who want to take advantage of the new features and bug fixes described in this document.

Factory Revision Letters for Deployment of Firmware Revision 12.4x

	XLe	XLt	XL6	LX	NX	QX
Firmware revision letter (second letter)	F	C	C	E	P	G
Firmware revision number (see System Menu)	12.42			12.40		
i.e. HE-XT103BC on box & product label indicates hardware revision B, firmware revision C						

Firmware 12.4x Enhancements – New Features

New Features - Communication	XLe	XLt	XL6	LX	NX	QX
Web Server OCS Register display font control					X	X
Envision FX (FXP) support	X	X	X		X	X
Modbus TCP Slave for Ethernet HE-XEC Module	X	X	X			
Modbus Serial Slave extended IDs	X	X	X		X	X
GPRS update: roaming control; manual network operator selection; user name, password and APN address from OCS registers	X	X	X			
14.4 KBaud & 28.8 KBaud support for MJ1 & MJ2	X	X				
New Features - Operator Interface	XLe	XLt	XL6	LX	NX	QX
Time and Date scheduling functions	X	X	X		X	X
Time and Date graphics object	X	X	X		X	X
Watchdog & Exception Popups are now suppressed if Popup Status is OFF in System Menu	X	X				
Eliminated function key auto-repeat		X				
Modified sign-on string to always show F/W version	X	X	X	X	X	X

New Features - Control Logic	XLe	XLt	XL6	LX	NX	QX
Optimized ladder logic solver for speed	X	X	X	X	X	X
1mS and 1S 16-bit timer functions	X	X	X	X	X	X
1mS, 10mS, 100mS & 1S 32-bit timer functions	X	X	X	X	X	X
14 new IEC structure support functions	X	X	X	X	X	X
Set Clock function extended register support	X	X	X	X	X	X
Send and Recv function extended register support	X	X	X		X	X
Added internal support to allow complex mathematical calculations (ie flow, etc.)			X		X	X
Removable Media File Copy function	X	X	X		X	X
PID function PWM Output & new Autotune cycle (Requires Cscape 9 or later)	X	X	X	X	X	X
New Features - System	XLe	XLt	XL6	LX	NX	QX
Updated system messages to provide more uniform, consistent text between OCS platforms. (Includes XL6, NX and QX boot loader updates)	X	X	X		X	X
Fail-Safe System (Backup/Restore/AutoLoad/AutoRun)	X	X	X		X	X

Firmware 12.4x Enhancements – Bug Fixes

Bug Fixes – Communication	XLe	XLt	XL6	LX	NX	QX
Fixed several IEP protocol issues					X	X
Fixed some FTP Server lockup issues					X	X
Fixed some Web Server lockup issues					X	X
Fixed Web Server PPPoE modem compatibility					X	X
Fixed several GSM/GPRS modem issues	X	X	X			
Fixed MJ1/MJ2 RS485 power-up bias initialization	X	X				
Fixed Communication Port disruption by key presses			X			
Fixed USB Programming Port resets			X			
(12.42) Added Support for HE-XEC Ethernet Rev B	X	X	X			
Bug Fixes – Operator Interface	XLe	XLt	XL6	LX	NX	QX
Fixed Multilanguage support resets	X	X	X	X	X	X
Fixed Touch Cal & Note Object Unicode resets						X
Fixed editable Text Table Unicode issues	X	X				X
Fixed Removable Media System Menu & User Object title bar Unicode issue	X	X	X		X	X
Fixed several Menu Object issues	X	X			X	X
Fixed Switch Object indicator issue	X	X			X	
Fixed Signed Numeric Object issue			X		X	X
Fixed ASCII & Numeric Object extended reg. issue	X	X	X	X	X	X
Fixed the “Invalid touch calibration data” message			X			
Fixed beep with no action on function key press		X				
Fixed quick screen change incorrect field select					X	

Bug Fixes - Control Logic	XLe	XLt	XL6	LX	NX	QX
Fixed PID IEC functions	X	X	X	X	X	X
Fixed PID Ladder function issues	X	X	X	X	X	X
Fixed Media Read by Column function block issue	X	X			X	X
Bug Fixes - System	XLe	XLt	XL6	LX	NX	QX
Fixed MicroSD support issue		X				
Fixed backpack detection at cold startups						X

Firmware 12.4x Known Issues

Communication Issues	Workaround	XLe	XLt	XL6	LX	NX	QX
Bug 2066 - On XL6, MJ1 hardware handshaking doesn't work.	Don't configure MJ1 for hardware handshaking.			X			
Operator Interface Issues	Workaround	XLe	XLt	XL6	LX	NX	QX
Bug 2008 - Alarm handler time stamping in 12-hour (AM/PM) mode doesn't work properly.	Use 24-hour mode.	X	X	X	X	X	X
Bug 2109 – On XLT Menu Object, after editing field in a sub-menu, screen reverts back to the main menu instead of the sub-menu.	Re-open sub-menu and continue editing as needed.		X				
Bug 2115 – On XLe Menu Object, the exclusive focus feature doesn't work.	Don't use exclusive focus on XLe Menu Objects.	X					

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