



Introduction

This technical bulletin describes how to calibrate LA4X amplified controllers using the Load Sensor Calibration Tool.

Load sensors must be calibrated to obtain reliable measurements when using ENCLOSURE CHECK on LA4X amplified controllers. For more information on this function, refer to the **ENCLOSURE CHECK** technical bulletin.

Calibrating must be done after replacing a power module or the DSP board.

LA4 and LA8 amplified controllers are not supported. LA2Xi and LA12X do not require calibration.

Software installation

Computer requirements

System:

- Windows 10 to Windows 11
- macOS High Sierra (10.13) to macOS Ventura (13.2)

Installation folder

After executing the LA Network Manager installer, the Load Sensor Calibration Tool can be found in the following folder:

- on Windows: C:\ Program Files (x86)\L-ACOUSTICS\LA Network Manager x.x.x\Load Sensor Calibration Tool
- on Mac: /Applications/L-Acoustics/Load Sensor Calibration Tool

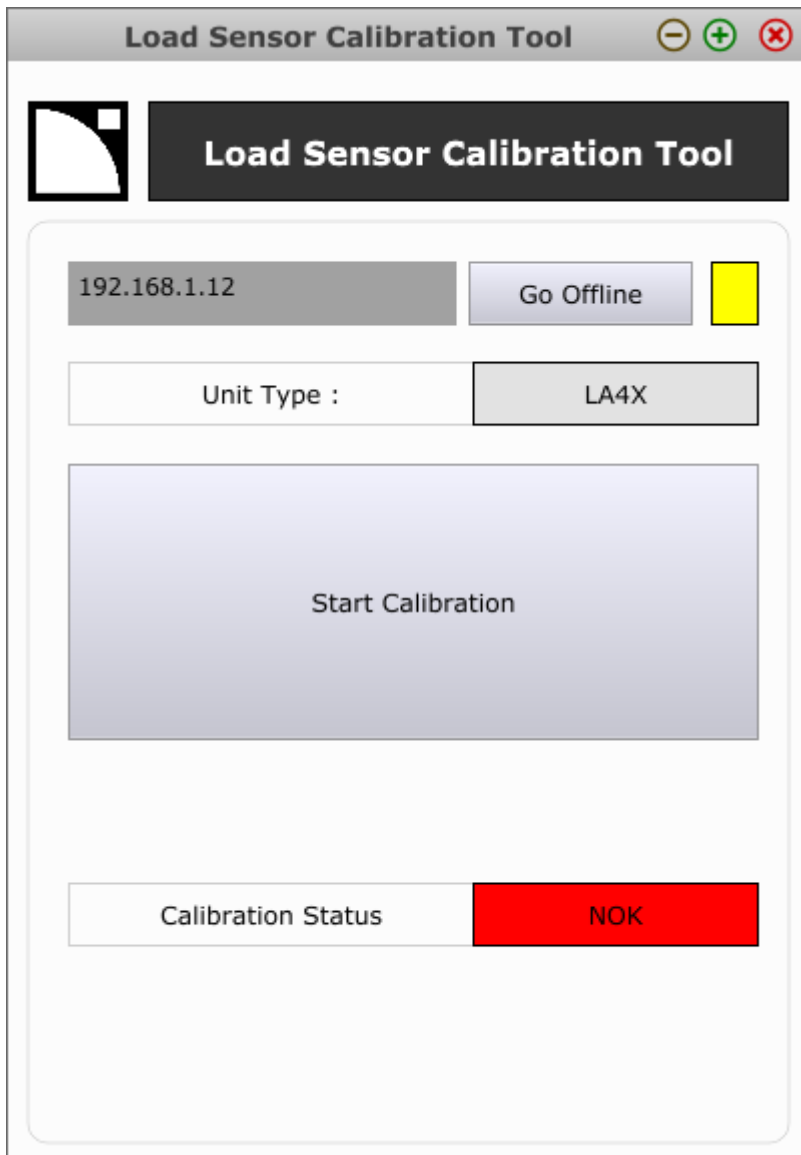
Calibration procedure

Procedure

1. Open the Load Sensor Calibration Tool.
2. Disconnect any speaker cables connected to the amplified controller.
3. Connect the amplified controller to the L-NET network.
Refer to the LA NWM Help for the **L-NET network setup** procedures.
4. Power on the amplified controller.
The amplified controller should run at least firmware version 1.2.0(.29).
Update firmware if necessary. Refer to the LA NWM Help for the **Updating Units Firmware** procedure.
5. Let the amplified controller warm up for at least 10 minutes.
Do not power off, reboot or switch to standby mode to avoid resetting the countdown.

6. In the IP address field, type the IP address of the amplified controller to be calibrated, then click **Go Online**.

The L-NET status turns yellow (on), the unit type and calibration status are displayed.

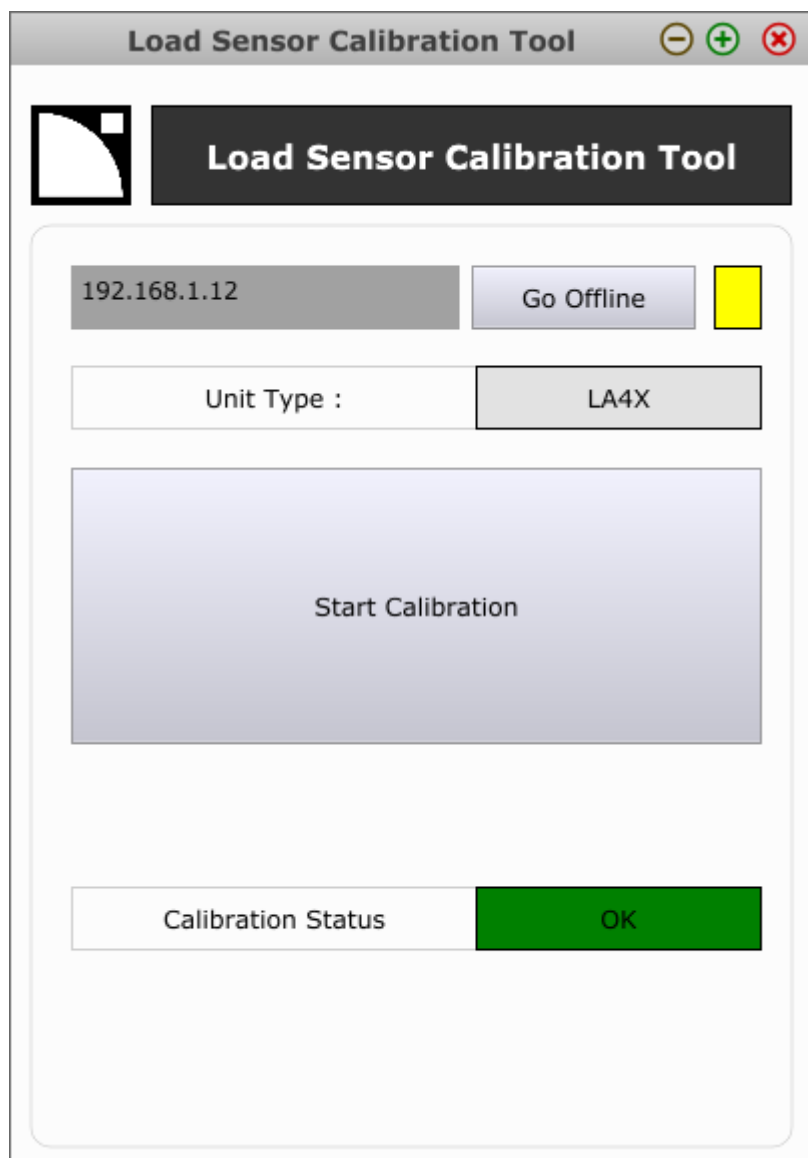


The screenshot shows the 'Load Sensor Calibration Tool' window. At the top, there is a title bar with the text 'Load Sensor Calibration Tool' and three window control buttons (minimize, maximize, close). Below the title bar, there is a dark header area with a logo on the left and the text 'Load Sensor Calibration Tool' on the right. The main content area contains several elements: an IP address field displaying '192.168.1.12', a 'Go Offline' button, and a yellow status indicator. Below these, there is a 'Unit Type' field displaying 'LA4X'. A large 'Start Calibration' button is centered in the middle of the window. At the bottom, there is a 'Calibration Status' field displaying 'NOK' in a red box.

192.168.1.12	Go Offline	Yellow
Unit Type :	LA4X	
Start Calibration		
Calibration Status	NOK	

7. Click **Start Calibration**.

Once the calibration process is completed, **Calibration Status** displays a green OK.


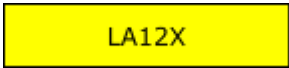
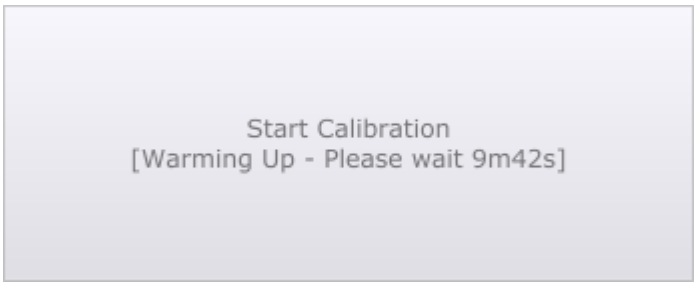




8. To calibrate another amplified controller, click **Go Offline** then repeat step 2 (p.1) to 7 (p.3).



We recommend re-calibrating amplified controllers returning from maintenance, in particular after the replacement of a power module or the DSP board, even if **Start Calibration** displays a green OK upon initial detection.

Common issues and resolutions

<p>Load Sensor Calibration Tool is online but L-NET status is white (off)</p> 	<p>A previously detected amplified controller is no longer detected.</p> <p>Check that the amplified controller is powered on and properly connected to the L-NET network. Refer to the LA NWM Help for the L-NET network setup procedures.</p>
<p>Unit type is yellow</p> 	<p>The amplified controller type is an unsupported type (LA2Xi, LA4, LA8, LA12X).</p> <p>Only calibrate supported type (LA4X).</p>
<p>Start Calibration is unavailable (appears dimmed), displays a countdown</p> 	<p>The detected amplified controller is still warming up (powered on for less than 10 minutes).</p> <p>Start Calibration is available at the end of the countdown.</p> <p>Note: powering off, rebooting and switching to standby mode resets the countdown.</p>
<p>Calibration Status displays a red NOK</p> 	<p>The detected amplified controller is not calibrated (no trace of previous calibration found).</p> <p>A previously calibrated amplified controller may display a red NOK after maintenance.</p> <p>Calibrating must be done after replacing a power module or the DSP board, even with a green OK upon initial detection.</p>
<p>Calibration Status displays a yellow Update Firmware</p> 	<p>The detected amplified controller runs an outdated version of the firmware.</p> <p>Use LA NWM to update the firmware</p>