

PRODUCT NOTE: EMX4 SIMULATION FIRMWARE

1 Overview

Special firmware is available for the EMX4 range of soft starters which simulates having 3 phase mains and a motor connected to the starter.

The simulation firmware allows all the EMX4 functions (soft start, run, soft stop) and input/output configurations including the Smart Card, to be tested in an office environment.

This can be useful when providing customer support as it allows parameter settings and control wiring configurations to be easily replicated and tested without the need for 3 phase power and a motor.

2 Detail

The EMX4 simulation firmware is available on the AuCom Hub (hub.aucom.com) in the Service Material section under Firmware & version control.

- There are separate files for EMX4i and EMX4e
- The simulation firmware is installed via a USB memory stick using the same procedure as for standard firmware updates. The document “EMX4 Software Upgrade (Bootloader Instructions)” detailing the firmware installation procedure is also available on the website
- When the EMX4 has the simulation firmware installed, “Simul” is displayed in the top left corner of the screen to provide an easy visual indication. The motor control firmware version reported via Setup Tools > Software Versions > Motor Control will also include the word “simul”



2.1 Using the simulation firmware

When the EMX4 has the simulation firmware installed DO NOT connect 3 phase mains supply to the unit. If 3 phase mains is mistakenly connected to the EMX4 unit with the simulation firmware installed, the unit will trip when the start command is given.

- When the simulation firmware has been installed, all parameters can be adjusted (including Motor FLC and Command Source) as usual
- The parameter settings made when using the simulation firmware can be saved and re-used with the standard firmware
 - Use “Load/Save Settings” to load or save settings internally
 - Use “USB Save & Load” to save the settings as master parameter file to transfer to another EMX4 starter

2.2 Return to normal operation

When the need for simulation is over, the EMX4 can be returned to normal operation by simply re-installing the standard firmware. This firmware is also available from hub.aucom.com