



# *Unitary Products Service Tips*

**DATE:** April 4, 2016

**ST-002-16**

**TO:** All Unitary Products Group Distributor Service Managers  
All Unitary Products Branch Service Managers  
All Regional Managers

**SUBJECT:** Auto-update Feature on SSE Firmware Version 3.1.0.0128

This letter is intended to provide guidelines for the use of SSE control firmware versions used in production. To date there have been three (3) firmware versions used in production.

1.0.0.1101  
3.0.0.1072  
3.1.0.0128

The following is a list of the UCB part numbers:

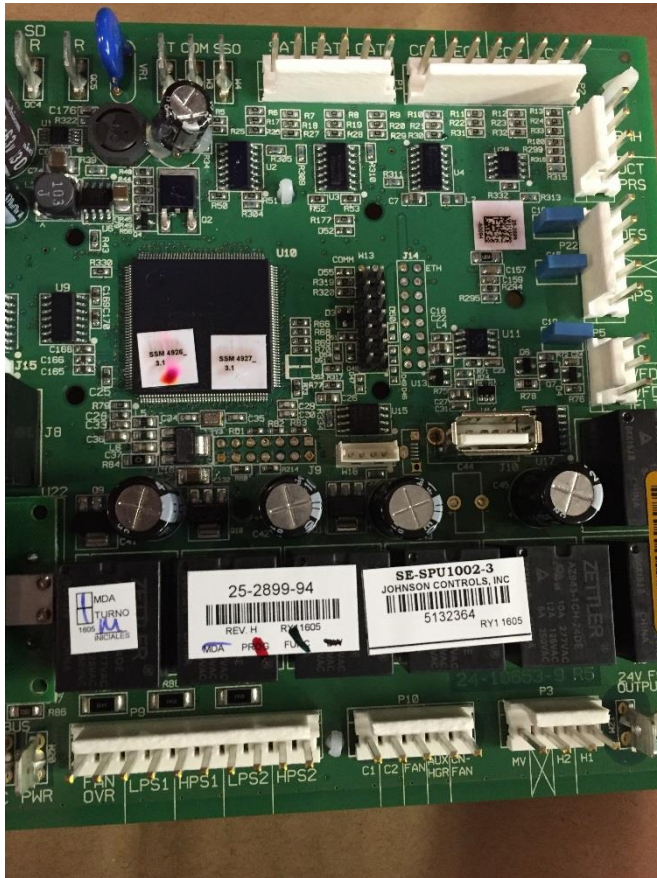
Version 1.0.0.1101	1-Stage w/o comm	S1-03103022000	SE-SPU1001-0
	2-Stage w/o comm	S1-03103023000	SE-SPU1002-0
	1-Stage w/comm	S1-03103024000	SE-SPU1011-0
	2-Stage w/comm	S1-03103025000	SE-SPU1012-0
Version 3.0.0.1072	1-Stage w/o comm	S1-03103480000	SE-SPU1001-1
	2-Stage w/o comm	S1-03103030000	SE-SPU1002-1
	1-Stage w/comm	S1-03103481000	SE-SPU1011-1
	2-Stage w/comm	S1-03103031000	SE-SPU1012-1
Version 3.1.0.0128	1-Stage w/o comm	S1-03103510000	SE-SPU1001-3
	2-Stage w/o comm	S1-03103508000	SE-SPU1002-3
	1-Stage w/comm	S1-03103511000	SE-SPU1011-3
	2-Stage w/comm	S1-03103509000	SE-SPU1012-3

Note: The part number for the communication board alone is S1-SE-COM1001-0

UCB controls with Version 3.1.0.0128 have an auto-update feature which automatically upgrades all other connected controls (Economizer, 4-Stage, FDD) from any version 3.0.0.xxxx firmware to version 3.1.0.0128 if they are not already at that level. The 3.1.0.0128 UCBs also have 8 meg of memory which is required to allow the auto-update feature to work.

The 8 meg boards were used in production starting in July or August of 2015 prior to the 3.1.0.0128 firmware release, so there are a number of 8 meg SE boards in the field that can have 3.0.0.1072 and 1.0.0.1101 firmware. The 8 meg boards can be identified from the labels applied across the control relays. If one of the labels has any of the following markings it is an 8 meg board.

- 25-2899-35 Rev. H or higher
- 25-2899-43 Rev. H or higher
- 25-2899-94 All revisions
- 25-2899-108 All revisions



It is important to understand that a board with 4 meg of memory cannot perform the auto-update function. That means that a 4 meg board cannot be updated with 3.1.0.0128 firmware on a test bench and then field-installed in a unit with the expectation that it will auto-update all other controls in a unit. In order to use the 3.1.0.0128 firmware on a 4 meg board AND guarantee that all other controls in the unit are updated, the firmware must be loaded onto a USB flash drive and the update must be done using the LOAD FIRMWARE function.

Please note that intermediate firmware revisions or patches have been made available to correct problems found in the field. These revisions are in addition to the three production versions listed above. Therefore it is very important that the firmware revision be checked prior to replacing any control board.

Replacement boards ordered from the parts list above will have the original production firmware and not any updates that may have been applied in the field. If you have questions regarding which replacement board should be ordered, please call your technical support team for assistance.

Care must be taken when upgrading any control from 1.0.0.1101 or any 3.0.0.xxxx firmware to 3.1.0.0128. In some cases a 3.1.0.0128.v1upgrade.secusb.pkg upgrade must be performed first. The following table provides a guideline on the need for this intermediate step:

FW Upgrade Path to 3.1.0.0128 using USB stick		
UCB Revision	Step 1	Step 2
1.0.0.1101	3.1.0.0128.v1upgrade.secusb.pkg	3.1.0.0128.secusb.pkg
3.0.0.xxxx (8Meg)	3.1.0.0128.v1upgrade.secusb.pkg	3.1.0.0128.secusb.pkg
3.0.0.xxxx (4Meg)	3.1.0.0128.secusb.pkg	

If a UCB control with Version 3.1.0.0128 firmware is installed in a unit that has other connected controls (Economizer, 4-Stage, FDD) with 1.0.0.1101 firmware, the auto-update feature will not work. The following table shows the situations where the auto-update feature will work:

Install a new UCB (8Meg) with 3.1.0.0128			
Auto Update will occur to these boards			
	Econ Board	4 Stage Board	FDD Board
1.0.0.1101 **	No **	No **	No **
3.0.0.xxxx	Auto updated	Auto updated	Auto updated
** Requires upgrade using the USB stick following Steps 1 & 2 above.			

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