

[BECSSys3 v1.20 Firmware Release](#)

BECSSys3 v1.20 firmware was released to production on May 5, 2008. A summary of changes present in this firmware release is included below - complete details are available in the latest Installation & Technical Manual, Rev D08.1 – specific sections of this manual are referenced in the summary.

All new features will be covered in detail in BEC Sys Technical Training Sessions.

As a safety precaution, all BEC Sys3 controllers now ship from the factory with Failsafe Alarm Timers set for the minimum setting of 1 hour. Failsafe timers may be adjusted as described in Section C-3 of the Tech Manual.

Units with older versions of the firmware may be upgraded with these new features by replacing the program chip.

<u>Part Number</u>	<u>Description</u>	<u>Trade Price</u>
1230080	BECSSys3 v1.20 program chip	\$200.00
9680014	PLCC chip extraction tool	\$60.00

[Summary of New Features in BEC Sys3 v1.20](#)

- 1) *RS485 communications have been enabled
 - o For use with BEC Sys RCM and future BEC Sys5/BEC Sys7 firmware releases
 - o NOTE: RS485 **hardware** exists in all BEC Sys3's that have been manufactured. This firmware release enables functionality on existing hardware.
- 2) *Restandardization of pH (single point) is now limited to ± 2.00 pH units
 - o As a safety feature, this change prevents restandardization to unreasonable values
 - o Earlier versions contained no limits on pH restandardization
- 3) Operator access code added to the encrypted access code screen (Section D-2.2)
 - o In cases where the operator or rep has forgotten their access code, this provides a way to recover the access code without going on-site
- 4) *Booster failsafe timeout is set via menu instead of the DIP switches (Section D-2.10)
 - o Default value is 30 minutes.
 - o Booster failsafe alarm may be disabled one of 2 ways:
 - Setting this value to 0 in the menus, or
 - Setting failsafe DIP switches to "disabled" (Section C-3)
 - o **BEC strongly recommends against disabling failsafe alarms.**
- 5) Dual pH dead zone is now a user settable parameter (Section D-2.11)
 - o When dual pH control is enabled, this setting determines how far away from the setpoint the pH must change before the feed direction changes.
 - o This dead-zone was present in previous versions, but not user settable.
 - o Default value is 0.2 pH units.
- 6) Simple 2 minute "Manual On" for relays (Section D-2.12)
 - o This feature has been added to provide a simple way to verify proper installation.

*These features were available in BEC Sys3 firmware v1.10. A limited number of BEC Sys3 systems with v1.10 were shipped.