

**Filename:** S04-0138-008

**Bootloader firmware revision:** 0.0, 1.0, 2.0 or 3.0

**Application firmware revision:** 20.0

**Models affected:** All

- Changes are for internal use only during manufacture.

**Filename:** S04-0138-007

**Bootloader firmware revision:** 0.0, 1.0, 2.0 or 3.0

**Application firmware revision:** 19.0

**Models affected:** All

**NOTE:**

**This firmware update should only be applied to devices with Main Board Revision 10 or higher.**

**The current firmware Main Board Revision can be found by:**

- 1. connecting to a device using PipeIQ**
- 2. right clicking on the device and selecting *Device Information***
- 3. confirm that *Firmware Revision : Main Board Revision* is 10 or greater**

**NOTE:**

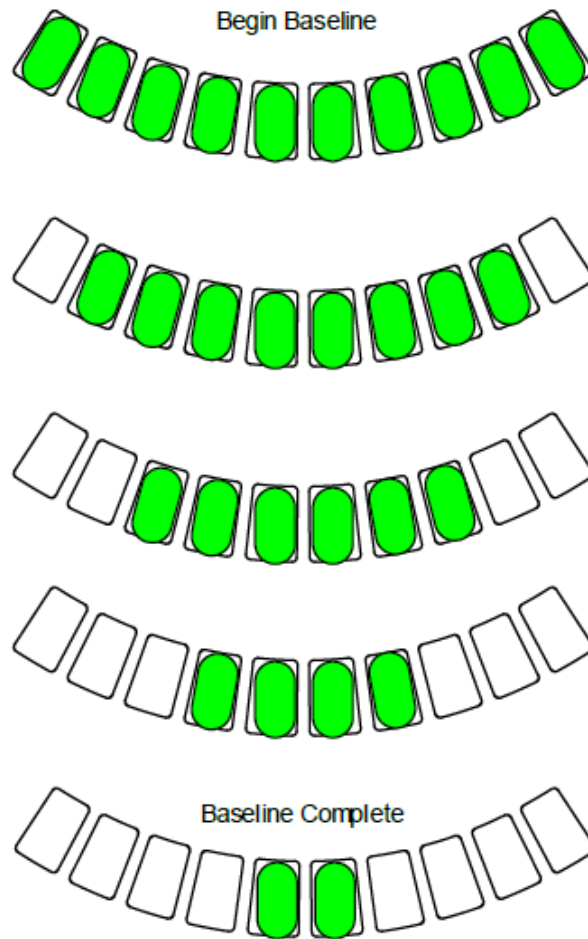
**The device bootloader is not upgraded with this firmware update. Devices with the listed bootloader version can be updated with this firmware update but the bootloader version number will remain the same.**

- Cyber Security Fixes
  - All passwords are encrypted while communicating with PipeIQ and web server
- User Interface
  - Press and hold the Reset button for 30 to 40 seconds to reset the IP settings to factory default.
  - Press and hold the Reset button for 40 to 50 seconds to reset the airflow baseline. The airflow LEDs on the user interface will now indicate the amount of time remaining to re-baseline the airflow.
- Webserver
  - The webserver has been updated to better resemble the FFAST XS and XT webserver.

- Added viewing for the following:
  - Sensor, User interface and Modbus Configurations
  - Trend and Messages Logs
  - Device information
- Added support for Google Chrome, Microsoft Internet Explorer and Mozilla Firefox browsers.
- Added support for Safari browser (Mac only).
- Changed auto logoff time to 20 minutes.
- Added multi-language support for message logs and general configuration details.
- Modbus
  - Modbus Identifier and Device Identification Number can now be unique
  - Common Modbus map for all FFAST XS, XM and XT devices. NOTE - After firmware upgrade the may need to modify the existing faceplate of UI to properly display new Modbus map.
  - Connection timeout time changed to 20 minutes.
  - Configuration changes are now possible when a device is in CONFIGURATION or DISABLE mode.
  - CLIP devices now support smoke referencing via Modbus.
- Bootloader
  - The IP address can be displayed when in bootloader mode. Press and hold the Reset button for 30 seconds to display the IP address.
  - Due to new firmware, the firmware upgrade progress display on LEDs may not display correctly on devices with older bootloader versions.
- Device Logs
  - Trend logging frequency is now configurable from PipeIQ.
  - Total number of trend entries is now 4320.
  - Circular buffer while logging trends into the device memory.
- General changes
  - A device will re-calculate its baseline after every configuration download.
  - Added multilanguage support e-mails.
  - Urgent and Minor faults are merged into a single Fault indication.
  - Firmware upgrade events are now logged.
  - The default configuration time stamp is 1-Jan-2015.

The user interface has been updated to indicate the amount of time remaining during airflow baselining.

If the system has not been baselined or a baseline reset has been initiated the device will illuminate all 10 segments on the airflow graph. As the baseline period progresses the segments will gradually turn off starting from the outside until it reaches the two center segments indicating the device has completed baselining. The baselining period is approximately 5 minutes.



If the device was previously baselined then the two center segments on the airflow graph will blink during the power on initialization period. The power on initialization period is approximately 5 minutes.



**Filename:** S04-0138-006

**Bootloader firmware revision:** 1

**Application firmware revision:** 12.0

**Release date:** September 2014

**Models affected:**

- FSA-8000(A)
  - AAD-8100
  - 8251FJ
  - TC846F1002(CDN)
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- General changes
    - Acclimate operation update
    - Added ZIP formatted firmware upgrade file for use in PipeIQ 2.x and greater

**Filename:** S04-0138-005

**Bootloader firmware revision:** 1

**Application firmware revision:** 11.0

**Release date:** May 2014

**Models affected:**

- All

- General changes

- Modbus/TCP includes the use of the Device Identifier. Refer to System Sensor's Modbus User Guide Schema 2.

**Filename:** S04-0138-004

**Bootloader firmware revision:** 1

**Application firmware revision:** 10.0

**Release date:** September 2013

**Models affected:**

- All
  
- General changes
  - Improved Airflow monitoring.