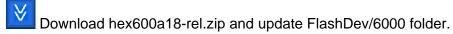# ASIC/1-6000 Release Note

ASIC/1-6000 FW600a1.8 (2008-11-19)

WHAT HAS CHANGED

- A new proportional plus integral airflow control algorithm improves the approach to airflow setpoint.

- Adds Single Setpoint Deadband (T3E42) for WS-051

- T3 E2 Primary AF Smooth Filter now defaults to 4

- T3 E47 now returns VV_DefaultOutputState used in Personality 0 and Boot Mode

- Table 3 Expanded to 52 Entries

- Input 2 and 3 now report correctly (new doubles) T9 E49,50 A1_AuxTempIN-02-word. T9 E51,52 A1_AuxTempIN-03-word

STEPS TO COMPLETE UPGRADE

Download hex600a18-rel.zip and update FlashDev/6000 folder.

Update ASI Expert files with 600a18-pvs.zip which includes a1-6000.pvs, a1-6000.tcl, asic1.mdb, and Expert 3.3.0.9. The new parameters are in the new asic1.mdb, a1-6000.pvs, and a1-6000.tcl files.

Update FlashDev to the latest version which works much better with ASIC/1-6000. Use FlashDev to update the firmware in the controller.

New Airflow Control Algorithm

A new proportional plus integral airflow control algorithm improves the approach to airflow setpoint.

As the damper drives the airflow toward the setpoint, the output begins to pulse, where the pulse size in 1/6 s increments is given by 4*Airflow Error/AF Hysteresis. The smallest non-zero Airflow Hysteresis gives the fastest approach to setpoint.

As control approaches the setpoint, the airflow error is summed over time. The Airflow Integration Time is the time required for a 25 ft/min error to sum to give an additional pulse.

To enable this algorithm you must give the Airflow Integration Time a non-zero value.[Default 4] If Airflow Integration Time T3E48 is zero, then reverts to old algorithm. (Drive To Airflow Setpoint, and then wait until airflow exceeds hysteresis.)

ASIC/1-6000 FW600a1.7 (2008-10-06)

WHAT HAS CHANGED

- Dual Heating now works with Electric Heat personalities.

STEPS TO COMPLETE UPGRADE

Download hex600a17-rel.zip and update FlashDev/6000 folder. Use FlashDev to update the firmware in the controller.

ASIC/1-6000 FW600a1.6 (2008-05-21)

WHAT HAS CHANGED

- Fixes a problem with Input Types 148,149 ZT10kType 2 and with Input Types 164, 165 ZT10kType3 not being recognized as Zone Temperature. Outputs were locked out.

STEPS TO COMPLETE UPGRADE

Download hex600a16-rel.zip and update FlashDev/6000 folder. Use FlashDev to update the firmware in the controller.

ASIC/1-6000 FW600a1.5 (2007-04-10)

WHAT HAS CHANGED

- Lowered threshold for Brownout Protection and Stable Power Restore
  Allows controller to operate down to 21 Vac

STEPS TO COMPLETE UPGRADE

Download hex600a15-rel.zip and update FlashDev/6000 folder. Use FlashDev to update the firmware in the controller.

To use the new fan coil features you must have Expert 3.3.0.3 or later and new asic1.mdb, a1-6000.pvs, a1-6000.tcl files. The updated files are available from the ASIC/1-6000 page in the integrator center.