



ASIC/1-6000 Release Note



APPLIES TO ASIC/1-6000
LAST REVISED 2007-05-21

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.

ASIC/1-6000 FW600a1.4 (2007-03-13)

WHAT HAS CHANGED

- Fixed bug. All stages of Electric Heat now turn off if the Primary Airflow is less than the Electric Heat Min Airflow Setpoint.
- Adds two new Fan Coil personalities 31, 2-pipe, and 32, 4-pipe for on/ off Chilled Water, Hot Water and Fan
- Adds Door Event feature to work with Occupancy Sensor to determine if the room is occupied after the door opens and closes.
- Adds Window Event feature to force the fan, heating and cooling off if a Window is open.

Fan Coil Feature

Two new personalities, 31, 2-pipe On/Off Fan Coil and 32, 4-pipe On/Off Fan Coil have been implemented for simple on-off fan coil applications such as hotel rooms.

An optional Door Event feature that works with the Occupancy sensor to determine if the zone is occupied. The Door Switch, that closes when the door is closed, is wired in series with a 1.82 kohm resistor on Input 6. One or more Occupancy sensor switches that close on occupancy are wired across Input 5.

An optional Window Switch Feature to turn off the fan and valves if the Window is open. One or more Window Switches that close when the window is closed are wired in series with a 3.32 kohm resistor on Input 6.

Please see the Application Bulletin 74, ASIC/1-6000-FC Fan Coil for further details.

ASIC/1-6000 FW600a1.3 (2007-01-03)

WHAT HAS CHANGED

- Adds Single Setpoint feature for WS-051 Digital Display.
- Implements Occupancy Sensor on Input 5 as in ASIC/1-8055

Single Setpoint Feature

If User Adjust Enable is yes, the WS-051 can be used to change the Occupied Cooling and Heating Temperature setpoints. If Single Setpoint Enable is yes, then single setpoint adjustment is supported where the Occupied Cooling Temperature Setpoint is changed and the Occupied Heating Temperature Setpoint is set 2 degrees lower. Please see the Application Bulletin 69, ASIC/1 Digital Display for further details.

Occupancy Sensor Feature

With firmware 600a1.3 the ASIC/1-6000 supports an occupancy sensor on Input 5. If the Occupancy Sensor Enable is set, the control state is determined by the daily event schedule or by the switch attached to input 5. The switch can sense a voltage threshold or may be two-position normally open or normally closed switch. Please see the Application Bulletin 66, ASIC/1 Occupancy Sensor for further details.

ASIC/1-6000 FW600a1.2 (2006-08-04)

WHAT HAS CHANGED

- Fixes problem with Damper Override Open/Closed command when Jumper J6 is open.
- Fixes problem with global Function override, MT=0x21, commands that occasionally caused incorrect output overrides.

Cooling Damper Override

This fixes a bug in FW600A1.1 and earlier in the Damper Override Open/Closed commands when the Jumper J6 is open to reverse the action of the Primary Damper. The Override Open drives it Closed! Override Closed drives it Open! The status of the damper is correctly displayed. If you need Damper Override commands to work correctly in FW600a1.1, you can leave Jumper J6 closed, and swap the Primary Damper Open and Closed Masks.

Global Function Override Commands

One of our customers reported seeing un-expected overrides of Hot Water Valve and Fan when globally broadcasting Cooling Damper Maximum or Cooling Damper Restore Commands. It

happened infrequently. It was traced to a problem with how the Function override Commands were handled and has been fixed.

ASIC/1-6000 Grounding Notice - August 2006

ASIC/1-6000's are grounded devices and must be solidly connected to the building electrical ground. The controller should be grounded by attaching #16 gauge wire from 24 Vac Common, TB1-4 to the grounded sheet metal of the VAV box being controlled.

WARNING: Failure to properly ground the controller may cause controller malfunction, or lose communication.

See Technical Note 34, ASIC/1-6000 Controller Grounding, for further information.

ASIC/1-6000 Customer Alert - May 2006

During production in spring 2006 we discovered an occasional defect in the operation of the one or two outputs of the ASIC/1-6000 controllers. The symptom is that the triac output does not come fully on. The measured voltage across the load is less than 20 Vac when the supply voltage is 24 Vac. The offending triac is only firing over one-half the cycle which may be insufficient to drive an actuator. This problem is aggravated at temperatures below 40 °F.

If you have experienced actuators that do not come on, or if you have a sensitive application where the controllers may be required to operate in a cold environment for an extended period, please contact ASI Technical Support.

We have reworked all product shipped since May 2006 to correct this problem. We have implemented a permanent fix in a new board revision.