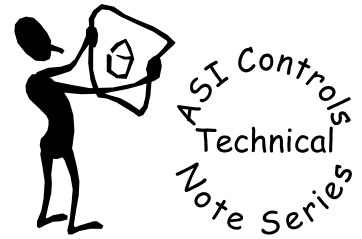




Updated ASIC/1-8x55 Boards

Affects: ASIC/1-8055, -8255, and -8355 Controllers

Date: April 24, 2003



Note No. TE021

Using ASIC/1-8x55 with WT-0XX Wall Sensors

The ASIC/1-8055, -8255, and -8355 boards were updated in the second half of 2002. The updated boards include MOV protection for the triac outputs and more robust communication, Blades for Fan Speed, and a new static memory chip, U14. An updated installation manual reflecting these changes is available on website page. ASI has recently been shipping the new hardware for the ASIC/1-8x55 family including:

- ASIC/1-8055 FW155B2.0 or later, VAV
- ASIC/1-8055 FW155A3.0 or later, VAV
- ASIC/1-8255 FW255A3.0 or later, Fan Coil
- ASIC/1-8355 FW355A2.0 or later, Heat Pump
- ASIC/1-8355-S FW355B2.0 or later, Heat Pump (On/Off Thermostat)

These versions have a second RS-485 chip, U1. The WT-0xx series wall sensor has a local/remote relay which ties the two RS-485 busses together, stopping communication. To use a WT-0xx wall sensor with the new ASIC/1-8x55 products it is necessary to remove the RS-485 chip, U1. The ASIC/1-8655 also has a second RS-485 chip, U12, which must be removed to use with the WT-0xx wall sensors.

"Old Doubles" vs. WS-051 Digital Display Wall Sensor

The standard firmware for the new ASIC/1-8055 controller is now FW155B to allow use of the WS-051 Digital Display Wall Sensor. FW155B does not support the use of "old doubles", which are the input values stored in Table 9, Entries 1-16. To read input values, you should refer to the "new doubles", which are the input values stored in Table 9, Entries 47-62. If you must read the input values from the "old doubles", then you can request FW155A v3.0 or later firmware, which supports the "old doubles"

- ASIC/1-8055 FW155B2.0 or later, VAV
 - This is the standard VAV product.
 - Supports WS-051 digital display
 - Does not support "Old Double" Inputs.
- ASIC/1-8055 FW155A3.0 or later, VAV
 - Does NOT support WS-051 digital display
 - Supports "Old Double" Inputs

FW155A3.0 should be used for replacements that require communication compatibility to ASIC/1-8015 controllers that expect "Old Double" Inputs in Table 9 Entry 1...16. FW155A3.0 does NOT support the WS-051 Digital Display Sensor. FW155A3.0 is available on request. Please contact us.

Note: Changing between FW155A & FW155B requires a brain dump, and recalibration of the airflow at zero.