

CBT12iVAV Strategy 2.5.0

Issue Date: Feb 19, 2016

Product: CBT12iVAV

Product Strategy: 2.5.0

Summary

The factory strategy for the CBT12iVAV has been updated to address several issues recently identified. It is recommended that any site experiencing the issues detailed below apply this new strategy.

All files relative to this release can be found on the [Dealer Toolbox](#) by visiting [Product Support>Controller Strategies](#).

Resolved Issues

Issue 1

With the introduction of the 7.6.5 firmware, input UI04 became corrupted in the process of upgrading the production process. This corruption affected a very small number of VAV controllers sold after Jan 1 2016. The corruption gave erroneous readings from UI04. This rendered the implementation of CO2 or Humidity control in the strategy impossible.

Issue 2

Some of the default settings were adjusted as requested by dealers to allow for a more simplified deployment and setup at the time of installation.

Issue 3

The adjustable parameters to control the running time of the tri-state heating valve were hard coded and not adjustable at run time. This resulted in the tri-state heating valve taking too long to open or staying open for longer than desired. These are now adjustable at runtime.

For detailed information on the operation and use of the CBT12iVAV please refer to the CBT12iVAV User Manual, which you can find on the [Dealer Toolbox](#).

Strategy Modifications

The UI04 element was found to be corrupted and has been corrected. Previously the reading would not correctly reflect the input signal. The UI04 element has been configured for Normal in the "Normal/Pulse Input Type" while the "Max Present Value" and "Input Scale Maximum" fields have been set to 10.

The links to the "Tri-State Heat Value Drive Time" and "Tri-State Heat Value Minimum On Time" elements to the scaler element were found to be disconnected.

Default values have been updated for the setpoint elements listed below:

- Constant Block 138 (indicates Strategy version) – 2.50
- TABPriPickupK – 1.25
- TABFanMaxStpt – 60 CFM
- InputConfigA – 0
- UI04CO2SensorBase – 0 ppm
- UI04CO2SensorSpan – 2000 ppm
- LocalCO2Stpt – 500 ppm
- CommunicationsOfflineTimer – 15 min
- AOConfigD – 0
- TABFanHgtMaxStpt – 60.00
- TABFanHgtMinStpt – 0.00
- CustomOpenVX10_AO14 – 50.00
- Boolean Block 276 – “((A & B) OR (B & C))”
- Boolean Block 489 – “(A & B & C)”
- Boolean Block 490 – “(B OR (A & not-B))”
- OnBoardOccSensorOverrideTime - 60.00
- Rescale Block 270
 - Input C of Block 270 was to UI4, this resulted in erroneous Humidity values. The connection between UI04 and input C on block 270 was deleted.
 - To allow for correct re-scaling the output of block 212 (point #139) was connected to input C of rescale block 270.
- CBT_STAT_CFG
 - Units changed to “No-Units (95)”
 - COV increment changed to 0.10
- SysMode7
 - Units changed from “Degrees-Angular (90)” to “No-Units (95)”
 - COV increment changed from 1.00 to 0.10
- netOCC
 - Units changed from “Degrees-Angular (90)” to “No-Units (95)”
 - COV increment changed from 1.00 to 0.10
- GraphicA
 - Units changed from “Degrees-Angular (90)” to “No-Units (95)”
 - COV increment changed from 1.00 to 0.10
- GraphicB
 - Units changed from “Degrees-Angular (90)” to “No-Units (95)”
 - COV increment changed from 1.00 to 0.10
- Raise Lower Driver for Tri-state heating valve
 - Connect Analog Set 320 to input T of Raise Lower Block 390
 - Connect Analog Set 369 to input M of Raise Lower Block 390