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VCC-X Controller - Configuration & Setpoints Worksheet

Filled Out By: \_\_\_\_\_ Date: \_\_\_\_\_

Job Name: \_\_\_\_\_

Job Location:

Four horizontal lines for job location details.

Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_

Service Contact: \_\_\_\_\_ Controls Contact : \_\_\_\_\_

Enter The Unit Tag Numbers For The HVAC Units
To Be Configured Per This Setpoint Worksheet:

Multiple horizontal lines for entering unit tag numbers.

# VCC-X Setup Sheet

## Configuration Screen #1

**VCC-X Cnfg ID 101**  
**Sensor Scaling**  
**Fahrenheit**  
**Use < Or > To Change**

- Fahrenheit
- Celsius

Check one of the boxes above. Default is "Fahrenheit".

## Configuration Screen #2

**VCC-X Cnfg ID 101**  
**RSM#1 Installed: NO**  
**RSM#2 Installed: NO**  
**Use < Or > To Change**

- |                              |                              |
|------------------------------|------------------------------|
| <b>RSM#1</b>                 | <b>RSM#2</b>                 |
| <input type="checkbox"/> NO  | <input type="checkbox"/> NO  |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes above. Default is "NO".

## Configuration Screen #3

**VCC-X Cnfg ID 101**  
**RSM#3 Installed: NO**  
**RSM#4 Installed: NO**  
**Use < Or > To Change**

- |                              |                              |
|------------------------------|------------------------------|
| <b>RSM#3</b>                 | <b>RSM#4</b>                 |
| <input type="checkbox"/> NO  | <input type="checkbox"/> NO  |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes for each category above. Default is "NO".

## Configuration Screen #4

**VCC-X Cnfg ID 101**  
**RSM Type:**  
**VFD**  
**Use < Or > To Change**

- VFD
- DIGITAL

Check one of the boxes above. Default is "VFD".

## Configuration Screen #5

**VCC-X Cnfg ID 101**  
**EM1 Installed: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #6

**VCC-X Cnfg ID 101**  
**MHGRV Installed: NO**  
**MODGAS Installed: NO**  
**Use < Or > To Change**

- |                              |                              |
|------------------------------|------------------------------|
| <b>MHGRV</b>                 | <b>MODGAS</b>                |
| <input type="checkbox"/> NO  | <input type="checkbox"/> NO  |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes for each category above. Default is "NO".

## Configuration Screen #7

**VCC-X Cnfg ID 101**  
**12RLY Install: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #8

**VCC-X Cnfg ID 101**  
**Preheat-X**  
**Installed: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #9

**VCC-X Cnfg ID 101**  
**HVAC Source**  
**Supply Air**  
**Use < Or > To Change**

- Supply Air
- Supply Air/Tempering
- Outdoor Air
- Supply Air
- Return Air
- Space Temperature
- Space Temperature with High OA CFM
- Single Zone VAV

Check one of the boxes above. Default is "Supply Air".

## Configuration Screen #10

**VCC-X Cnfg ID 101**  
**HVAC Mode Set By**  
**Remote Contact: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #11

**VCC-X Cnfg ID 101**  
**SAT Reset Source**  
**No Reset**  
**Use < Or > To Change**

- No Reset
- Space Temperature
- Outdoor Temperature
- Return Air Temperature
- Fan VFD Signal
- Remote Voltage Signal

Check one of the boxes above. Default is "No Reset".

## Configuration Screen #12

**VCC-X Cnfg ID 101**  
**Reset Interval**  
**Rate: 30 s**  
**[1 - 255 Seconds]**

Enter 1 to 255 seconds above. Default is "30 Seconds".

## Configuration Screen #13

**VCC-X Cnfg ID 101**  
**Space Sensor Type**  
**None**  
**Use < Or > To Change**

- None
- Analog
- E-BUS Space/ RH
- Receive Broadcast
- Remote Sensor

Check one of the boxes above. Default is "None".

## Configuration Screen #14

**VCC-X Cnfg ID 101**  
**Remote Space Sensor**  
**Board Address: 0**

Enter the address. Default is "0".

## Configuration Screen #15

**VCC-X Cnfg ID 101**  
**Outdoor Sensor Type**  
**None**  
**Use < Or > To Change**

- None
- Analog
- E-BUS OAT/ RH
- Receive Broadcast

Check one of the boxes above. Default is "None".

# VCC-X Setup Sheet

## Configuration Screen #16

VCC-X Cnfg ID 101  
Return Sensor Type  
NONE  
Use < Or > To Change

- None
- Analog
- E-BUS Return/RH

Check one of the boxes above. Default is "NONE".

## Configuration Screen #17

VCC-X Cnfg ID 101  
Static Pr Control  
Fan VFD  
Use < Or > To Change

- None
- Fan VFD
- Bypass Damper

Check one of the boxes above. Default is "Fan VFD".

## Configuration Screen #18

VCC-X Cnfg ID 101  
Static/Fan Control  
Rate: 10 s  
[ 1 – 30 Seconds ]

Enter 1 to 30 seconds above. Default is "10 seconds".

## Configuration Screen #19

VCC-X Cnfg ID 101  
Static Pr. Control  
Max Adjust: 5%  
[ 1 – 30% ]

Enter 1 to 30 percent above. Default is "5 percent".

## Configuration Screen #20

VCC-X Cnfg ID 101  
Fan Voltage Output  
Min Volts: 0.0 VDC  
Max Volts: 10.0 VDC

In the first box, enter 0 to 10. Default is "0 Volts". In the second box, enter 0 to 10. Default is "10 Volts."

## Configuration Screen #21

VCC-X Cnfg ID 101  
Fan Cycle Mode  
NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #22

VCC-X Cnfg ID 101  
Fan Proving  
NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #23

VCC-X Cnfg ID 101  
Fan Starting  
Delay: -1 s  
[ -1 = Unit Addr x 5 ]

Enter -1 to 240 seconds above. Default is "-1 seconds". -1 = multiply controller address by 5 seconds.

## Configuration Screen #24

VCC-X Cnfg ID 101  
Purge Mode  
Delay: 10 s  
[ 0 – 900 Seconds ]

Enter 0 to 900 seconds above. Default is "10 seconds".

## Configuration Screen #25

VCC-X Cnfg ID 101  
Heat Type  
No Heat  
Use < Or > To Change

- No Heat
- Staged Only
- Mod Heat Only
- Modgas-x Then Staged
- Mod Heat Then Staged

Check one of the boxes above. Default is "No Heat".

## Configuration Screen #26

VCC-X Cnfg ID 101  
Mod Heat Volt Output  
Min Pos Volts: 0.0  
Max Pos Volts: 10.0

In the first box, enter 0 to 10. Default is "0 Volts". In the second box, enter 0 to 10. Default is "10 Volts."

## Configuration Screen #27

VCC-X Cnfg ID 101  
Cool Type  
Refrigeration Module  
Use < Or > To Change

- Refrigeration Module
- Staged Only
- Mod Only

Check one of the boxes above. Default is "Refrigeration Module".

# VCC-X Setup Sheet

## Configuration Screen #28

**VCC-X Cnfg ID 101**  
**Mech Heat/Cool**  
**Alarm Delay: 15 Min**

Enter 0 to 240 minutes above. Default is "15 Minutes".

## Configuration Screen #29

**VCC-X Cnfg ID 101**  
**Econo Control Type**  
**No Economizer**  
**Use < Or > To Change**

- No Economizer
- Standard Economizer
- IAQ Economizer (Economizer with CO<sub>2</sub> Override)

Check one of the boxes above. Default is "No Economizer".

## Configuration Screen #30

**VCC-X Cnfg ID 101**  
**Title 24**  
**Economizer: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #31

**VCC-X Cnfg ID 101**  
**Econo Control In**  
**Unoc Mode: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #32

**VCC-X Cnfg ID 101**  
**Econo Enable Source**  
**Drybulb**  
**Use < Or > To Change**

- Drybulb
  - Wetbulb (OA RH Sensor needed)
  - Dewpoint (OA RH Sensor needed)
- Check one of the boxes above. Default is "Drybulb".

## Configuration Screen #33

**VCC-X Cnfg ID 101**  
**Economizer Control**  
**Rate: 10 s**  
**Prop Window: 10°F**

In the first box, enter 1 to 30. Default is "10 seconds". In the second box, enter 0 to 100. Default is "10 degrees F."

## Configuration Screen #34

**VCC-X Cnfg ID 101**  
**Econo Voltage Output**  
**Min Volts: 2.0 VDC**  
**Min Volts: 10.0 VDC**

In the first box, enter 0 to 10. Default is "2 VDC". In the second box, enter 0 to 10. Default is "10 VDC."

## Configuration Screen #35

**VCC-X Cnfg ID 101**  
**CO2 Sensor Installed**  
**NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #36

**VCC-X Cnfg ID 101**  
**Building Pr. Installed**  
**None**  
**Use < Or > To Change**

- None
  - Analog
  - Receive Broadcast
- Check one of the boxes above. Default is "None".

## Configuration Screen #37

**VCC-X Cnfg ID 101**  
**Building Pr. Control**  
**None**  
**Use < Or > To Change**

- None
  - On/Off Exhaust Relay
  - Modulating Exhaust
  - Outdoor Air Damper
  - Supply Fan
- Check one of the boxes above. Default is "None".

## Configuration Screen #38

**VCC-X Cnfg ID 101**  
**Building Pr. Control**  
**Rate: 10 Sec**  
**[ 1 – 30 Seconds ]**

Enter 1 to 30 seconds. Default is "10 seconds".

## Configuration Screen #39

**VCC-X Cnfg ID 101**  
**Building Pr. Control**  
**Max Adjust: 5%**  
**[ 1 – 30% ]**

Enter 1 to 30. Default is "5 percent".

# VCC-X Setup Sheet

## Configuration Screen #40

VCC-X Cnfg ID 101  
Exh Fan Volts  
Min Volts: 0.0 VDC  
Max Volts: 10.0 VDC

  

In the first box, enter 0 to 10. Default is "0 VDC". In the second box, enter 0 to 10. Default is "10 VDC."

## Configuration Screen #41

VCC-X Cnfg ID 101  
Heat Pump Config  
No Heat Pump  
Use < Or > To Change

- No Heat Pump
- Air/Air Fail to Heat
- Air/Air Fail to Cool
- WSHP Fail to Heat
- WSHP Fail to Cool

Check one of the boxes above. Default is "No Heat Pump".

## Configuration Screen #42

VCC-X Cnfg ID 101  
WSHP Glycol  
Percentage: 0%  
Use < Or > To Change

Enter 0-40 in increments of 5. Default is "0%".

## Configuration Screen #43

VCC-X Cnfg ID 101  
Aux Heat Type  
No Aux Heat  
Use < Or > To Change

- No Aux Heat
- Staged Only
- Mod Heat Only
- Modgas-x Then Staged
- Mod Heat Then Staged

Check one of the boxes above. Default is "No Aux Heat".

## Configuration Screen #44

VCC-X Cnfg ID 101  
Dehum. Control  
None  
Use < Or > To Change

- None
- Only Occupied Vent
- Only Vent Anytime
- All Modes Occupied
- All Modes Anytime

Check one of the boxes above. Default is "None".

## Configuration Screen #45

VCC-X Cnfg ID 101  
Humidity Control  
Sensor: Space  
Use < Or > To Change

- Space
- Return
- Outdoor E-BUS

Check one of the boxes above. Default is "Space".

## Configuration Screen #46

VCC-X Cnfg ID 101  
Reheat Control  
None  
Use < Or > To Change

- None
- On/Off HGR Relay
- Modulating HGR
- Unit Heat
- Mod HGR + Unit Heat
- On/Off HGR + Unit Heat

Check one of the boxes above. Default is "None".

## Configuration Screen #47

VCC-X Cnfg ID 101  
Airflow  
Station: Paragon  
Use < Or > To Change

- Paragon
- Ebtron

Check one of the boxes above. Default is "Paragon".

## Configuration Screen #48

VCC-X Cnfg ID 101  
Monitor OA Airflow  
NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #49

VCC-X Cnfg ID 101  
Control Outdoor Air  
CFM: NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #50

VCC-X Cnfg ID 101  
Outdoor Airflow Duct  
Size: 0.00  
[ In Square Feet ]

Enter the inside area in square feet of the outdoor air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

## Configuration Screen #51

VCC-X Cnfg ID 101  
Monitor SA Airflow  
NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #52

VCC-X Cnfg ID 101  
Supply Airflow Duct  
Size: 0.00  
[ In Square Feet ]

Enter the inside area in square feet of the supply air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

## Configuration Screen #53

VCC-X Cnfg ID 101  
Monitor RA Airflow  
NO  
Use < Or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO".

## VCC-X Setup Sheet

### Configuration Screen #54

**VCC-X Cnfg ID 101**  
**Return Airflow Duct**  
Size: 0.00  
[ In Square Feet ]

Enter the inside area in square feet of the return air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

### Configuration Screen #55

**VCC-X Cnfg ID 101**  
**Monitor Exh Airflow**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #56

**VCC-X Cnfg ID 101**  
**Exhaust Airflow Duct**  
Size: 0.00  
[ In Square Feet ]

Enter the inside area in square feet of the exhaust air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

### Configuration Screen #57

**VCC-X Cnfg ID 101**  
**Morning Warm Up**  
None  
Use < Or > To Change

- None  
 Stand-Alone  
 Broadcast Fixed to Boxes  
 Broadcast Max to Boxes

Check one of the boxes above. Default is "None".

### Configuration Screen #58

**VCC-X Cnfg ID 101**  
**AHU Uses Schedule**  
Number: 0  
[ '0' For Internal ]

Enter 0-8. Default is "0".

### Configuration Screen #59

**VCC-X Cnfg ID 101**  
**Daylight Adjustment**  
Start Date: 0000  
Stop Date: 0000

In the first box, enter 0 to 1231. Default is "0". In the second box, enter 0 to 1231. Default is "0".

### Configuration Screen #60

**VCC-X Cnfg ID 101**  
**Trend Log**  
Rate: 15 Min  
[ 1 - 120 Minutes ]

Enter 1 to 120 minutes. Default is "15 minutes".

### Configuration Screen #61

**VCC-X Cnfg ID 101**  
**Emergency Shutdown**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #62

**VCC-X Cnfg ID 101**  
**Dirty Filter**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #63

**VCC-X Cnfg ID 101**  
**Broadcast OA Temp**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #64

**VCC-X Cnfg ID 101**  
**Broadcast OA RH**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #65

**VCC-X Cnfg ID 101**  
**Broadcast SPC Temp**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #66

**VCC-X Cnfg ID 101**  
**Broadcast SPC RH**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #67

**VCC-X Cnfg ID 101**  
**Broadcast CO2**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

### Configuration Screen #68

**VCC-X Cnfg ID 101**  
**Broadcast Build. Pr.**  
NO  
Use < Or > To Change

- NO  
 YES

Check one of the boxes above. Default is "NO".

# VCC-X Setup Sheet

## Configuration Screen #69

**VCC-X Cnfg ID 101**  
**Broadcast to Boxes**  
**NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #70

**VCC-X Cnfg ID 101**  
**Cool Stage Delays**  
**Stage Up: 3 Min**  
**Stage Down: 1 Min**

  

In the first box above enter a value from 3 to 15. The default value is "3".

In the second box above enter a value from 1 to 15. The default value is "1".

## Configuration Screen #71

**VCC-X Cnfg ID 101**  
**Cool Stage Delays**  
**Min Run: 5 Min**  
**Min Off: 3 Min**

  

In the first box above enter a value from 5 to 15. The default value is "5".

In the second box above enter a value from 3 to 15. The default value is "3".

## Configuration Screen #72

**VCC-X Cnfg ID 101**  
**Heat Stage Delays**  
**Stage Up: 3 Min**  
**Stage Down: 1 Min**

  

In the first box above enter a value from 3 to 15. The default value is "3".

In the second box above enter a value from 1 to 15. The default value is "1".

## Configuration Screen #73

**VCC-X Cnfg ID 101**  
**Heat Stage Delays**  
**Min Run: 5 Min**  
**Min Off: 1 Min**

  

In the first box above enter a value from 2 to 15. The default value is "5".

In the second box above enter a value from 1 to 15. The default value is "1".

## Configuration Screen #74

**VCC-X Cnfg ID 101**  
**Heat Pump Delays**  
**Aux Heat: 3 Min**  
**[ 0 – 60 minutes ]**

In the box above enter a value from 0 to 60. The default value is "3".

## Configuration Screen #75

**VCC-X Cnfg ID 101**  
**Heat/Cool Changeover**  
**Delay: 5 Min**  
**[ 0 – 20 minutes ]**

In the box above enter a value from 0 to 20. The default value is "5".

## Configuration Screen #76

**VCC-X Cnfg ID 101**  
**Return Air Bypass**  
**Control: NO**  
**Use < Or > To Change**

- NO
- YES

Check one of the boxes above. Default is "NO".

## Configuration Screen #77

**VCC-X Cnfg ID 101**  
**Morning Cool-Down**  
**None**  
**Use < Or > To Change**

- None
- Stand Alone
- Bcast Fixed to Boxes
- Bcast Max to Boxes

Check one of the boxes above. Default is "None".

## VCC-X Setup Sheet

Relays #2 through #24 can be individually configured. By using the 7 relay outputs available on the VCC-X Controller the 5 relays on the VCC-X EM1 Expansion Module, and the 12 Relays on the 12 Relay E-BUS Expansion Module, you have the ability to configure up to a combined total of 24 Heating Stages, Cooling Stages, and the other options listed above. Only the Heating and Cooling relays can be configured with multiple outputs. If any other option is selected more than once, it will simply activate redundant relays but no multiple staging will occur.

### Configuration Screen #78

**VCC-X Cnfg ID 101  
On-Board Relay 2  
Not Used  
Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #79

**VCC-X Cnfg ID 101  
On-Board Relay 3  
Not Used  
Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #80

**VCC-X Cnfg ID 101  
On-Board Relay 4  
Not Used  
Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #81

**VCC-X Cnfg ID 101  
On-Board Relay 5  
Not Used  
Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #82

**VCC-X Cnfg ID 101  
On-Board Relay 6  
Not Used  
Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.



## VCC-X Setup Sheet

### Configuration Screen #83

**VCC-X Cnfg ID 101**  
**On-Board Relay 7**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #84

**VCC-X Cnfg ID 101**  
**On-Board Relay 8**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #85

**VCC-X Cnfg ID 101**  
**EM1 Relay 1**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #86

**VCC-X Cnfg ID 101**  
**EM1 Relay 2**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #87

**VCC-X Cnfg ID 101**  
**EM1 Relay 3**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #88

**VCC-X Cnfg ID 101**  
**EM1 Relay 4**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

# VCC-X Setup Sheet

## Configuration Screen #89

**VCC-X Cnfg ID 101**  
**EM1 Relay 5**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## Configuration Screen #90

**VCC-X Cnfg ID 101**  
**12 Rly Bd 1**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## Configuration Screen #91

**VCC-X Cnfg ID 101**  
**12 Rly Bd 2**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## Configuration Screen #92

**VCC-X Cnfg ID 101**  
**12 Rly Bd 3**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## Configuration Screen #93

**VCC-X Cnfg ID 101**  
**12 Rly Bd 4**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## Configuration Screen #94

**VCC-X Cnfg ID 101**  
**12 Rly Bd 5**  
**Not Used**  
**Use < Or > To Change**

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## VCC-X Setup Sheet

### Configuration Screen #95

VCC-X Cnfg ID 101  
12 Rly Bd 6  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #96

VCC-X Cnfg ID 101  
12 Rly Bd 7  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #97

VCC-X Cnfg ID 101  
12 Rly Bd 8  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #98

VCC-X Cnfg ID 101  
12 Rly Bd 9  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #99

VCC-X Cnfg ID 101  
12 Rly Bd 10  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

### Configuration Screen #100

VCC-X Cnfg ID 101  
12 Rly Bd 11  
Not Used  
Use < Or > To Change

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

## VCC-X Setup Sheet

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Configuration Screen #101

<p><b>VCC-X Cnfg ID 101</b> <b>12 Rly Bd 12</b> <b>Not Used</b> <b>Use &lt; Or &gt; To Change</b></p>
---

- Not Used (Default)
- Cooling Stage
- Heating Stage
- Heat Pump Aux Heat
- Emergency Heat
- Mod Heat Enable
- Mod Cool Enable
- Warm-up / Cool-Down
- Reheat
- Preheat
- Low Ambient
- Exhaust Fan
- Economizer
- Heat Wheel
- Occupied
- Override
- Alarm

Check one of the boxes above.

# VCC-X Setpoints Worksheet

## Setpoint Screen #1

**VCC-X Spts ID 101  
Occupied HVAC Spts  
Cooling.....: 75°F  
Heating.....: 70°F**

In the first box above enter a value from 1 to 110. The default value is “75”. In the second box above enter a value from 1 to 110. The default value is “70”.

## Setpoint Screen #2

**VCC-X Spts ID 101  
Hood On HVAC Spts  
OAT Cool: 75.0°F  
OAT Heat: 70.0°F**

In the first box above enter a value from 1 to 110. The default value is “75”. In the second box above enter a value from 1 to 110. The default value is “70”.

## Setpoint Screen #3

**VCC-X Spts ID 101  
Unoccupied Offsets  
Cooling.....: 30°F  
Heating.....: 30°F**

In the first box above enter a value from 0 to 30. The default value is “30”. In the second box above enter a value from 0 to 30. The default value is “30” and indicates no Unoccupied operation will occur.

## Setpoint Screen #4

**VCC-X Spts ID 101  
Mode Deadband  
Setpoint: 1.0°F**

In the box above enter a value from 1 to 10. The default value is “1”.

## Setpoint Screen #5

**VCC-X Spts ID 101  
Space Sensor  
Slide Adj: 0°F**

In the box above enter a value from 0 to 10. The default value is “0”.

## Setpoint Screen #6

**VCC-X Spts ID 101  
Calibrate Slide Adj  
Put At Up Pos: XXX  
Enter # Shown**

Once the slider is in the up position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

## Setpoint Screen #7

**VCC-X Spts ID 101  
Calibrate Slide Adj  
At Middle Pos: XXX  
Enter # Shown**

Once the slider is in the middle position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

## Setpoint Screen #8

**VCC-X Spts ID 101  
Calibrate Slide Adj  
At Down Pos: XXX  
Enter # Shown**

Once the slider is in the down position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

## Setpoint Screen #9

**VCC-X Spts ID 101  
Space Sensor  
Push-Button Override  
Duration.....: 2.0 Hr**

In the box above enter a value from 0 to 8.0. The default value is “2.0”.

## Setpoint Screens #10 & 11

**VCC-X Spts ID 101  
Controlling Sensor  
High Alarm Offset  
Setpoint: 30.0°F**

**VCC-X Spts ID 101  
Controlling Sensor  
Low Alarm Offset  
Setpoint: 30.0°F**

In the boxes above enter a value from 0 to 50. The default value is “30”. Only applies to Space, Return Air, or Single Zone VAV controlled units.

## Setpoint Screen #12

**VCC-X Spts ID 101  
Outdoor Dewpoint  
Setpoint: 55°F**

In the box above enter a value from 35 to 80. The default value is “55”.

## Setpoint Screen #13

**VCC-X Spts ID 101  
Indoor RH Setpt  
Disable/Lo Rst: 50%  
Enable/Hi Rst: 60%**

In the first box above enter a value from 0 to 100. The default value is “50”. In the second box above enter a value from 0 to 100. The default value is “60”. This screen can be used to set the Indoor (Space or Return Air) Dehumidification Enable and Disable Setpoints and to set the Indoor Humidity Reset Range used to reset the Coil Suction (Saturation) Temperature Setpoint during Dehumidification. Please see the instructions for *Setpoint Screen #13* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

## VCC-X Setpoints Worksheet

### Setpoint Screen #14

**VCC-X Spts ID 101**  
**Coil Temp Setpt**  
**Hi Rst Lmt: 45°F**  
**Lo Rst Lmt: 40°F**

  

In the first box enter a value from 35 to 70. The default value is “45”. In the second box enter a value from 35 to 70. The default value is “40”. During Dehumidification, the Coil temperature can be reset within the range created on this screen per the description for *Setpoint Screen #13*. If no reset is desired, set both the low and high setpoints to the same value.

### Setpoint Screen #15

**VCC-X Spts ID 101**  
**Static Pressure**  
**Setpt: 1.50"WG**  
**Deadband: 0.10"WG**

  

In the first box above enter a value from .10 to 3.0. The default value is “1.5”. In the second box above enter a value from .01 to 0.5. The default value is “.10”.

### Setpoint Screen #16

**VCC-X Spts ID 101**  
**VFD Speed Limits**  
**Min Cool: 30%**  
**Min Vent: 20%**

  

In the first box above enter a value from 0 to 100. The default value is “30”. In the second box above enter a value from 0 to 100. The default value is “20”. If this unit is configured for Single Zone VAV operation, the Min Cool Percentage will be the fan speed at which the VFD will start operating at when cooling is initiated. It can then modulate up to 100% as the space temperature rises within the range created by the Cool Low Reset Source and the Cool High Reset Source Setpoints entered in *Setpoint Screen #19*.

If this is a CAV or MUA unit, this should be set to 100%.

The Min Vent Percentage is the speed at which the fan will operate at during the Vent Mode.

### Setpoint Screen #17

**VCC-X Spts ID 101**  
**VFD Speed Limits**  
**Min Heat: 50%**  
**Max Heat: 100%**

  

In the first box above enter a value from 0 to 100. The default value is “50”. In the second box above enter a value from 0 to 100. The default value is “100”. If this unit is configured for Single Zone VAV operation, and you have a modulating heat source that will allow VAV heating, then the Min Heat Percentage will be the fan speed at which the VFD will start operating at when heating is initiated. It can then modulate up to the Max Heat Percentage as the Space Temperature falls within the range created by the Heat High Reset Source and the Heat Low Reset Source created in *Setpoint Screen #21*. On a standard VAV unit, if the VFD Signal falls below the Minimum VFD Heat Setpoint during the Heating Mode, Heating will be disabled. If this is a CAV, MUA, or Single Zone VAV with CAV Heating, these setpoints should both be set at the same value which represents the constant speed you want the fan to operate at during the Heating Mode.

### Setpoint Screen #18

**VCC-X Spts ID 101**  
**Supply Air Cooling**  
**Spt: 55°F**  
**Hi Rst Lmt: 55°F**

  

If no Reset Source has been configured in *Configuration Screen #11*, then this Setpoint will be the SAT Cooling Setpoint. Line 4 will be blank. If a Reset Source has been configured in *Configuration Screen #11*, then Line 4 will read Hi Rst Limit. In the first box

above enter a value from 30 to 80. The default value is “55”. In the second box above enter a value from 0 to 100. The default value is “55”.

### Setpoint Screen #19

**VCC-X Spts ID 101**  
**Cool Rst Source Spts**  
**High Reset: 75°F**  
**Low Reset: 70°F**

  

If no SAT Reset Source has been configured in *Configuration Screen #11*, you can disregard this screen.

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #19* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 1 to 150. The default value is “75”. In the second box above enter a value from -10 to 150. The default value is “70”.

### Setpoint Screen #20

**VCC-X Spts ID 101**  
**Supply Air Heating**  
**Setpt: 120**  
**Hi Rst Limit: 120**

  

If no Reset Source has been configured in *Configuration Screen #11*, then this Setpoint will be the SAT Heating Setpoint. Line 4 will be blank. If a Reset Source has been configured in *Configuration Screen #11*, then Line 4 will read Rst Limit.

In the first box above enter a value from 40 to 240. The default value is “120”. In the second box above enter a value from 0 to 250. The default value is “120”.

## VCC-X Setpoints Worksheet

### Setpoint Screen #21

**VCC-X Spts ID 101**  
**Heat Rst Source Spts**  
**High Reset: 75°F**  
**Low Reset: 70°F**

  

If no SAT Reset Source has been configured in *Configuration Screen #11*, you can disregard this screen.

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #21* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 1 to 150. The default value is "75". In the second box above enter a value from -30 to 150. The default value is "70".

### Setpoint Screen #22

**VCC-X Spts ID 101**  
**Stage Off Window**  
**Cooling: 5°F**  
**Heating: 5°F**

  

In the first box above enter a value from 1 to 30. The default value is "5". In the second box above enter a value from 1 to 50. The default value is "5".

### Setpoint Screen #23

**VCC-X Spts ID 101**  
**Mod Heat**  
**Prop Window: 10°F**  
**Time Period: 30sec**

  

In the first box above enter a value from .1 to 30. The default value is "10". In the second box above enter a value from 5 to 240. The default value is "30".

### Setpoint Screen #24

**VCC-X Spts ID 101**  
**Mod Cool**  
**Prop Window: 10°F**  
**Time Period: 30sec**

  

In the first box above enter a value from .1 to 30. The default value is "10".

In the second box above enter a value from 5 to 240. The default value is "30".

### Setpoint Screen #25

**VCC-X Spts ID 101**  
**Head Pressure Spts**  
**Cooling: 340psi**  
**Reheat: 390 psi**

  

In the first box above enter a value from 240 to 420. The default value is "340".

In the second box above enter a value from 240 to 420. The default value is "390".

### Setpoint Screen #26

**VCC-X Spts ID 101**  
**WSHP Head Pres.Spts**  
**Cooling: 235 psi**  
**Reheat: 350 psi**

  

In the first box above enter a value from 200 to 350. The default value is "235".

In the second box above enter a value from 200 to 350. The default value is "350".

### Setpoint Screen #27

**VCC-X Spts ID 101**  
**Condenser Fan Cycle**  
**Enable: 310 psi**  
**Deadband: 50 psi**

  

In the first box above enter a value from 245 to 470. The default value is "310".

In the second box above enter a value from 35 to 100. The default value is "50".

### Setpoint Screen #28

**VCC-X Spts ID 101**  
**Condenser Fan Cycle**  
**Reheat Offset**  
**Enable: 50 psi**

In the box above enter a value from 50 to 150. The default value is "50".

# VCC-X Setpoints Worksheet

## Setpoint Screen #29

**VCC-X Spts ID 101  
Economizer Enable  
Setpt: 55°F**

In the box above enter a value from -30 to 80. The default value is "55".

## Setpoint Screen #30

**VCC-X Spts ID 101  
Economizer Min  
Damper Pos: 10%**

In the box above enter a value from 0 to 100. The default value is "10".

## Setpoint Screen #31

**VCC-X Spts ID 101  
Max Econo Pos In  
Heat Mode: 50%**

In the box above enter a value from 0 to 100. The default value is "50".

## Setpoint Screen #32

**VCC-X Spts ID 101  
Min, Outdoor Airflow  
Setpt: 2.00 kCFM  
Deadband: 200 CFM**

  

In the first box above enter a value from .1 to 200. The default value is "2".

In the second box above enter a value from 10 to 9999. The default value is "200".

## Setpoint Screen #33

**VCC-X Spts ID 101  
High CO2:  
Max OA kCFM: 2.0  
Max Econo Pos: 50%**

  

In the first box above, enter a value from .10 to 200. The default value is "2".

In the second box above enter a value from 0 to 100. (Note the minimum is whatever value you set for Economizer Min. Position on *Setpoint Screen #30* above). The default value is "50".

## Setpoint Screen #34

**VCC-X Spts ID 101  
CO2 Setpoints  
Min CO2: 900 PPM  
Max CO2: 1000 PPM**

  

In the first box above enter a value from 0 to 2000. The default value is "900".

In the second box above enter a value from 0 to 2000. The default value is "1000".

## Setpoint Screen #35

**VCC-X Spts ID 101  
Altitude  
Setpt: 1000 Ft**

In the box above enter a value from 0 to 15,000. The default value is "1000".

## Setpoint Screen #36

**VCC-X Spts ID 101  
Building Pressure  
Setpt: 0.02"WG  
Deadband: 0.01"WG**

  

In the first box above enter a value from -.2 to .2. The default value is ".02".

In the second box above enter a value from .01 to .1. The default value is ".01".

## Setpoint Screen #37

**VCC-X Spts ID 101  
OAT Lockouts  
Comp Cool: 50°F  
Comp Heat: 35°F**

  

In the first box above enter a value from -30 to 100. The default value is "50".

In the second box above enter a value from -30 to 100. The default value is "35".



Setpoint Screen #38

VCC-X Spts ID 101  
OAT Lockouts  
Heat: 90°F

In the box above enter a value from -30 to 150. The default value is "90".

Setpoint Screen #39

VCC-X Spts ID 101  
Supply Air Cutoffs  
Cooling: 40°F  
Heating: 150°F

In the first box above enter a value from 0 to 100. The default value is "40".

In the second box above enter a value from 0 to 250. The default value is "150".

Setpoint Screen #40

VCC-X Spts ID 101  
Mod Heat Output Pos  
In Off Mode: 0%

In the box above enter a value from 0 to 100. The default value is "0".

Setpoint Screen #41

VCC-X Spts ID 101  
Preheat Relay  
Setpt: 30°F

In the box above enter a value from -30 to 70. The default value is "30".

Setpoint Screen #42

VCC-X Spts ID 101  
Low Ambient  
Setpt: 30°F

In the box above enter a value from -30 to 70. The default value is "30".

Setpoint Screen #43

VCC-X Spts ID 101  
Heat Pump Defrost  
Interval: 30 Min

In the box above enter a value from 10 to 120. The default value is "30".

Setpoint Screen #44

VCC-X Spts ID 101  
Adaptive Defrost  
Interval Adj: 0 Min

In the box above enter a value from 0 to 30. The default value is "0".

Setpoint Screen #45

VCC-X Spts ID 101  
Heat Wheel Defrost  
Temp Setpt: 30°F

In the box above enter a value from 0 to 50. The default value is "30".

Setpoint Screen #46

VCC-X Spts ID 101  
Morning Warmup  
Max Length: 60 Min  
Target Temp: 70°F

In the first box above enter a value from 0 to 240. The default value is "60".

In the second box above enter a value from 50 to 90. The default value is "70".

Setpoint Screen #47

VCC-X Spts ID 101  
SZ VAV Integral  
Constant: 0

In the box above enter a value from 0 to 10. The default value is "0".

Setpoint Screen #48

VCC-X Spts ID 101  
Return Air Bypass  
Damper Factor  
Setpoint: 40%

In the box above enter a value from 0 to 100. The default value is "40".

Setpoint Screen #49

VCC-X Spts ID 101  
Warmup Supply Air  
Setpoint: 100.0°F

In the box above enter a value from 40 to 240. The default value is "100".

# VCC-X Setpoints Worksheet

## Setpoint Screen #50

<b>VCC-X Spts ID 101 Cooldown Supply Air Setpoint: 55.0°F</b>

In the box above enter a value from 30 to 80. The default value is "55".

## Setpoint Screen #51

<b>VCC-X Spts ID 101 Preheat-X Spts Cooling Mode: 40.0°F Heating Mode: 60.0°F</b>

In the first box above enter a value from 35 to 90. The default value is "40".  
In the second box above enter a value from 35 to 90. The default value is "60".

## Setpoint Screen #52

<b>VCC-X Spts ID 101 Preheat-X Spts Vent Mode: 50.0°F</b>
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In the box above enter a value from 35 to 90. The default value is "50".

## Setpoint Screen #53

<b>VCC-X Spts ID 101 Superheat Setpoint: 15.0°F</b>
---

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In the box above enter a value from 1 to 30. The default value is "15".

## Setpoint Screens #54-58

*Setpoint Screens #54 through #58* allow you to calibrate any sensors that are not reading correctly. In the boxes above for the sensor(s) you wish to calibrate, enter a value from -100 to +100 (-500 to +500 for the CO<sub>2</sub> Sensor). The default value is "0". The current value shown on Line 3 is the actual temperature the sensor is reading plus the offset temperature amount you enter.

<b>VCC-X Spts ID 101 Space Sensor Cal Current: 0.0°F Offset: 0.0°F</b>
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<b>VCC-X Spts ID 101 Return Sensor Cal Current: 0.0°F Offset: 0.0°F</b>
---

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<b>VCC-X Spts ID 101 SAT Sensor Cal Current: 0.0°F Offset: 0.0°F</b>
--

--

<b>VCC-X Spts ID 101 OAT Sensor Cal Current: 0.0°F Offset: 0.0°F</b>
--

--

<b>VCC-X Spts ID 101 CO2 Sensor Cal Current: 0ppm Offset: 0ppm</b>
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**RSMV & RSMV-HP  
CONFIGURATION  
SCREENS**

**RSMV #1 Configuration  
Screen #1**

RSM 1 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSMV #1 Configuration  
Screen #2**

RSM 1 Configuration  
Compressor Type  
1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED  
Use < or > to CHANGE

- 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
- BOTH ARE FIXED

Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

**RSMV #1 Configuration  
Screen #3**

RSM 1 Configuration  
Evap Coil Exv  
Uses EXV-1 Only  
Use < or > to CHANGE

- Uses EXV-1 & EXV-2
- Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

**RSMV #1 Configuration  
Screen #4**

RSM 1 Configuration  
Heat Pump Cond Exv  
Uses EXV-3 Only  
Use < or > to CHANGE

- Uses EXV-3 & EXV-4
- Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

**RSMV #2 Configuration  
Screen #1**

RSM 2 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSMV #2 Configuration  
Screen #2**

RSM 2 Configuration  
Compressor Type  
1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED  
Use < or > to CHANGE

- 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
- BOTH ARE FIXED

Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

**RSMV #2 Configuration  
Screen #3**

RSM 2 Configuration  
Evap Coil Exv  
Uses EXV-1 Only  
Use < or > to CHANGE

- Uses EXV-1 & EXV-2
- Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

**RSMV #2 Configuration  
Screen #4**

RSM 2 Configuration  
Heat Pump Cond Exv  
Uses EXV-3 Only  
Use < or > to CHANGE

- Uses EXV-3 & EXV-4
- Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

**RSMV #3 Configuration  
Screen #1**

RSM 3 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSMV #3 Configuration  
Screen #2**

RSM 3 Configuration  
Compressor Type  
1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED  
Use < or > to CHANGE

- 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
- BOTH ARE FIXED

Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

**RSMV #3 Configuration  
Screen #3**

RSM 3 Configuration  
Evap Coil Exv  
Uses EXV-1 Only  
Use < or > to CHANGE

- Uses EXV-1 & EXV-2
- Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

**RSMV #3 Configuration  
Screen #4**

RSM 3 Configuration  
Heat Pump Cond Exv  
Uses EXV-3 Only  
Use < or > to CHANGE

- Uses EXV-3 & EXV-4
- Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

### RSMV #4 Configuration

#### Screen #1

RSM 4 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

### RSMV #4 Configuration

#### Screen #2

RSM 4 Configuration  
Compressor Type  
1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED  
Use < or > to CHANGE

- 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
- BOTH ARE FIXED

Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

### RSMV #4 Configuration

#### Screen #3

RSM 4 Configuration  
Evap Coil Exv  
Uses EXV-1 Only  
Use < or > to CHANGE

- Uses EXV-1 & EXV-2
- Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

### RSMV #4 Configuration

#### Screen #4

RSM 4 Configuration  
Heat Pump Cond Exv  
Uses EXV-3 Only  
Use < or > to CHANGE

- Uses EXV-3 & EXV-4
- Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

**RSMD MAIN CONFIGURATION SCREENS**

**RSMD Main Configuration Screen #1**

RSMD Configuration  
Digital Compressor  
Min Position: 0%

Enter a value from 0 to 100. The default value is "0".

**RSMD Main Configuration Screen #2**

RSM #1 Configuration  
Condenser Options  
2 Cond per RSMD  
Use < or > to CHANGE

- 2 Cond per RSMD
- 1 Cond for 1 RSMD
- 1 Cond for 2 RSMDs
- 1 Cond for 3 RSMDs
- 2 Cond for 2 RSMDs

Check one of the boxes above. Default is "2 Cond per RSMD".

**RSMD Main Configuration Screens #3-5**

RSM 2-4 Cond Options  
Config Same as RSM 1  
2 Cond per RSMD  
Use < or > to CHANGE

- 2 Cond per RSMD
- 1 Cond for 1 RSMD
- 1 Cond for 2 RSMDs
- 1 Cond for 3 RSMDs
- 2 Cond for 2 RSMDs

Choose the same Condenser option you chose for RSMD #1 for RSMD #2, #3, and #4 from the list above, depending on how many RSMDs you are using. If you choose any other option than the one chosen for RSMD #1, the RSMD will not run properly. Default is "2 Cond per RSMD".

**RSMD #1-#4 CONFIGURATION SCREENS**

**RSM #1 Configuration Screen #1**

RSM 1 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSM #1 Configuration Screen #2**

RSM 1 Configuration  
Compressor #1 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #1 Configuration Screen #3**

RSM 1 Configuration  
Compressor #2 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #1 Configuration Screen #4**

RSM 1 Configuration  
Refrigerant Circuit  
SPLIT  
Use < or > to CHANGE

- SPLIT
- TANDEM

Check one of the boxes above. Default is "SPLIT".

**RSM #1 Configuration Screen #5**

RSM 1 Configuration  
Fan Cycle Control  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #1 Configuration Screen #6**

RSM 1 Configuration  
Fixed Condenser Fan  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #2 Configuration Screen #1**

RSM 2 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSM #2 Configuration Screen #2**

RSM 2 Configuration  
Compressor #1 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #2 Configuration  
Screen #3**

RSM 2 Configuration  
Compressor #2 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #2 Configuration  
Screen #4**

RSM 2 Configuration  
Refrigerant Circuit  
SPLIT  
Use < or > to CHANGE

- SPLIT
- TANDEM

Check one of the boxes above. Default is "SPLIT".

**RSM #2 Configuration  
Screen #5**

RSM 2 Configuration  
Fan Cycle Control  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #2 Configuration  
Screen #6**

RSM 2 Configuration  
Fixed Condenser Fan  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #3 Configuration  
Screen #1**

RSM 3 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSM #3 Configuration  
Screen #2**

RSM 3 Configuration  
Compressor #1 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #3 Configuration  
Screen #3**

RSM 3 Configuration  
Compressor #2 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

**RSM #3 Configuration  
Screen #4**

RSM 3 Configuration  
Refrigerant Circuit  
SPLIT  
Use < or > to CHANGE

- SPLIT
- TANDEM

Check one of the boxes above. Default is "SPLIT".

**RSM #3 Configuration  
Screen #5**

RSM 3 Configuration  
Fan Cycle Control  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #3 Configuration  
Screen #6**

RSM 3 Configuration  
Fixed Condenser Fan  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

**RSM #4 Configuration  
Screen #1**

RSM 4 Configuration  
Compressor Option  
DUAL  
Use < or > to CHANGE

- DUAL
- SINGLE

Check one of the boxes above. Default is "DUAL".

**RSM #4 Configuration  
Screen #2**

RSM 4 Configuration  
Compressor #1 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

### RSM #4 Configuration

#### Screen #3

RSM 3 Configuration  
Compressor #2 Type  
MODULATING  
Use < or > to CHANGE

- MODULATING
- FIXED

Check one of the boxes above. Default is "MODULATING".

### RSM #4 Configuration

#### Screen #4

RSM 4 Configuration  
Refrigerant Circuit  
SPLIT  
Use < or > to CHANGE

- SPLIT
- TANDEM

Check one of the boxes above. Default is "SPLIT".

### RSM #4 Configuration

#### Screen #5

RSM 4 Configuration  
Fan Cycle Control  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".

### RSM #4 Configuration

#### Screen #6

RSM 4 Configuration  
Fixed Condenser Fan  
NO  
Use < or > to CHANGE

- YES
- NO

Check one of the boxes above. Default is "NO".