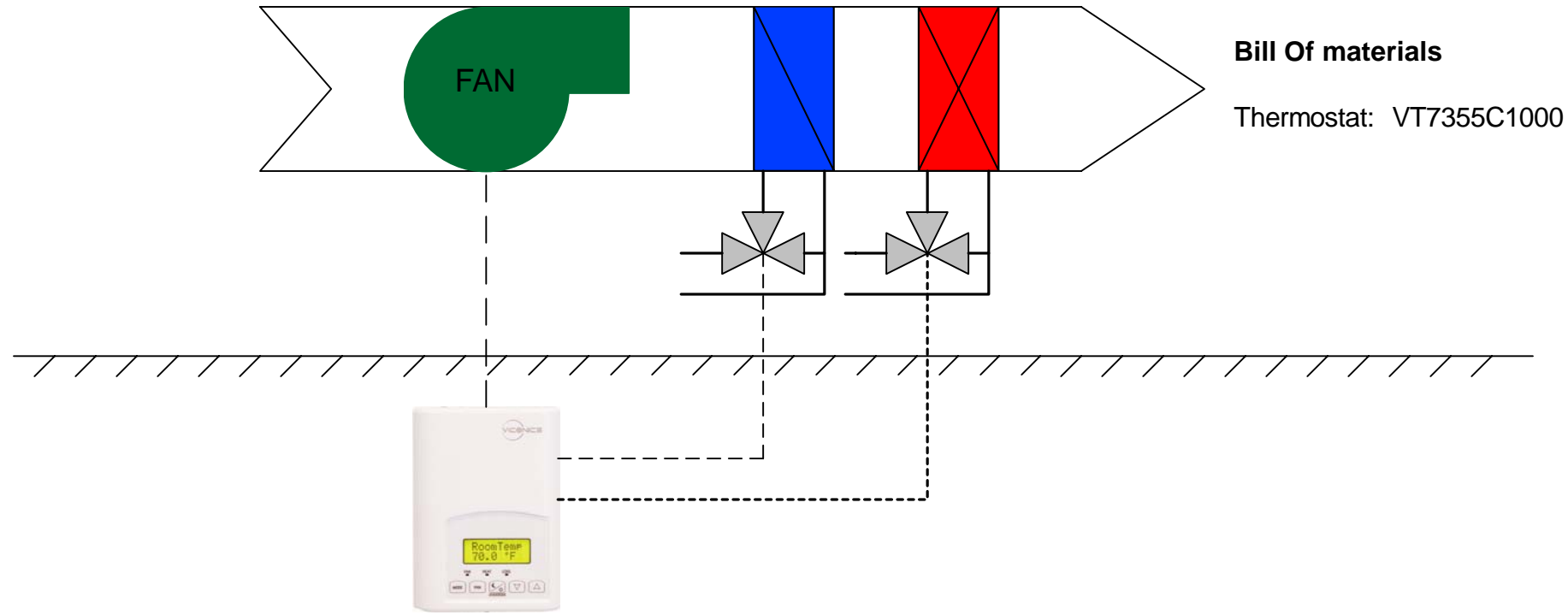




Viconics VT7355F1000 to Control 4-Pipe Fancoil Unit with 3-Speed Fan, 0-10Vdc Analog Valves, and Dehumidification Sequence.

Options:

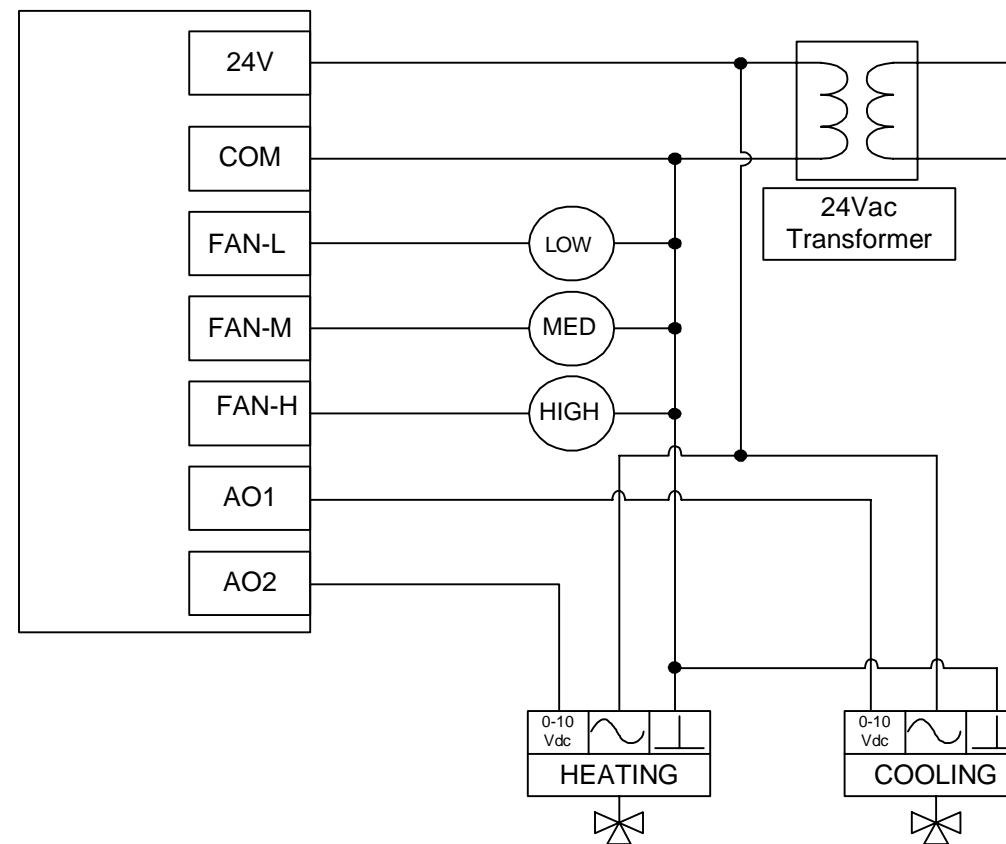
- BACnet and Echelon models available.
- Remote wall mount or duct sensor ready.
- Floating outputs available (*different model)
- Can be configured for 2 pipe systems.
- Binary inputs can be configured to control occupancy via door or window contact, remote night setback or to provide alarms for service or filter monitoring.
- Universal input can be configured for a changeover sensor



- > To enter configuration menu press and hold center key for 8 seconds.
- > For full explanation of parameters refer to Viconics manual.

PARAMETER	VALUE
Com Addr	Conditional Parameter--Only Present when connected to Network
BI1	None
BI2	None
UI3	None
MenuScro	ON
AutoMode	ON
C or F	As per user. Default value = °F
%RH disp	ON
Lockout	As per user. Default value = 0 No lock
Pipe No	4.0
SeqOpera	4 = Cooling / Heating 4 pipes
Fan Menu	2
DHumiLCK	ON
%RH set	As per user. Default value = 50%. Range = 30% to 95%
DehuHyst	As per user. Default value = 5%. Range = 2% to 20%
DehuCool	As per user. Default value = 100%. Range = 20% to 100%
Unocc HT	As per user. Default value = 62 °F (17 °C). Range = 40 to 90 °F (4.5 to 32.0 °C)
Unocc CL	As per user. Default value = 80 °F (27 °C). Range = 54 to 100 °F (12 to 37.5 °C)
heat max	As per user. Default value = 90 °F (32 °C). Range = 40 to 90 °F (4.5 to 32.0 °C)
cool min	As per user. Default value = 54 °F (12 °C). Range = 54 to 100 °F (12 to 37.5 °C)
Set Type	Permanent
TOccTime	As per user. Default value 2 hours. Range = 0 to 24 hours
DoorTime	N/A
deadband	As per user. Default value 2.0 °F (1.0 °C). Range = 2, 3, 4 or 5 °F, 1.0 °F increments (1.0 to 2.5 °C, 0.5 °C increments)
cal RS	0 °F or °C
cal RH	0 °F or °C
aux cont	0
RA/DA	Reverse Acting (RA) or Direct Acting (DA), depends on actuator
Reheat	0 for ON/OFF (4CPH), 1 for PWM (10 second)

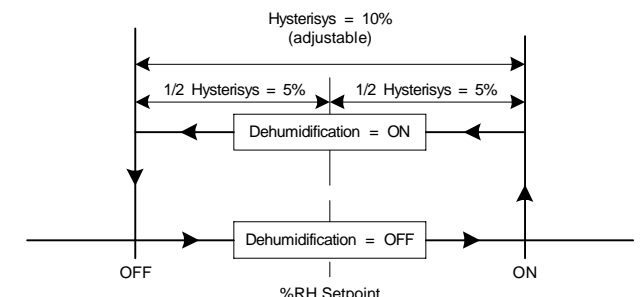
WIRING DIAGRAM



Sequence of Operation:

- On a demand for **HEATING**:
 - Thermostat is in HEAT mode (or heating in AUTO mode)
 - Heating valve will modulate to maintain room temperature.
 - Dehumidification is disabled.
- On a demand for **COOLING**:
 - Thermostat is in COOL mode (or cooling in AUTO mode)
 - Cooling valve will modulate to maintain room temperature.
 - Dehumidification is enabled.
- On a demand for **DEHUMIDIFICATION**:
 - Dehumidification is achieved via the cooling coil using the heating coil for reheat if necessary.
 - Dehumidification is only allowed in COOL mode (or if cooling is enabled in AUTO mode).
 - Dehumidification is disabled if the room temperature falls below the low ambient lockout temperature. Which is the cooling setpoint minus the configuration defined deadband value.
 - Reheat is disabled if PI cooling demand reaches 100%.

Dehumidification ON/OFF Sequence:



Application: VT7355F1000

Hydronic Heating and Cooling with Dehumidification sequence.

Controlling: 4 Pipe Heating and Cooling Coils via Tri-State Analog Valves and 3-Speed Fan

Drawing By: Jimmy El-Hajj
Viconics Electronics Inc.