



EVCB44 **VAV Unit Controller**

The EVCB44 VAV Controller is designed for simple and accurate control of any variable air volume box in a number of zone control configurations. Its field configurable algorithms enable versatile implementation of required control sequences.

APPLICATIONS

- Single duct, cooling only
- Single duct cooling and/or heating
- Analog (0-10Vdc) reheat and/or cool
- Pressure dependent or pressure independent
- With or without auto changeover
- Single Duct with analog Reheat
- Fresh Air Damper
- Self-Balancing Damper (bypass, exhaust, etc.)

MODELS

Model	Pressure Type	AI	AO
EVCB44NIT0S	Indep.	1	1
EVCB44NDT0S	Dep.	1	1

FEATURES

- 24Vac operation
- 1 analog input, 1 analog output
- Field configured VAV algorithm
- Built-in actuator 70in.lb [8Nm] (select models)
- On board differential pressure sensor (pressure independent models)
- Manual or automatic pressure mode selection (pressure independent models)
- Configurable PI (Proportional-Integral) function
- Simple air balancing and commissioning via digital room sensor
- Independent, configurable proportional control band and dead band per ramp
- Selectable internal or external temperature sensor (10K Ω)
- Activate output with CO₂ from digital room sensor or external CO₂ sensor
- Change over by contact or external temperature sensor
- Fixed, raising clamp, non-strip terminals

NETWORK COMMUNICATION

- BACnet MS/TP or Modbus RTU communication (selectable via menu)
- Select MAC address via digital room sensor or via network
- Automatic baud rate detection

BACnet MS/TP

- BACnet scheduler (up to 6 events)
- Firmware upgradeable via network
- COV (change of value)
- Copy and broadcast configuration to other EVCB modules via menu or network
- Automatic device instance configuration

Modbus RTU

- Modbus RTU @ 9600, 19200, 38400 or 76500 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- Connects to any Modbus RTU master

■ TDU - Universal Digital Room Sensors



● TDU10

● TDU40

○ TDU70



● TDU00

● TDU30

○ TDU60

Horizontal Models	Temp.	RH	CO ₂
● TDU10-100 ● TDU40-100 ○ TDU70-100	•		
● TDU10-101 ● TDU40-101 ○ TDU70-101	•	•	
● TDU10-102 ● TDU40-102 ○ TDU70-102	•	•	•
● TDU10-103 ● TDU40-103 ○ TDU70-103	•		•

Vertical Models	Temp.	RH	CO ₂	PIR	VOC
● TDU00-100 ● TDU30-100 ○ TDU60-100	•				
● TDU00-101 ● TDU30-101 ○ TDU60-101	•	•			
● TDU00-102 ● TDU30-102 ○ TDU60-102	•	•	•		
● TDU00-104 ● TDU30-104 ○ TDU60-104	•			•	
● TDU00-105 ● TDU30-105 ○ TDU60-105	•	•		•	
● TDU00-106 ● TDU30-106 ○ TDU60-106	•	•	•		•
● TDU00-107 ● TDU30-107 ○ TDU60-107	•	•	•	•	•
● TDU00-108 ● TDU30-108 ○ TDU60-108	•	•	•	•	

TDU FEATURES

- Built-in temperature sensor and optional humidity, CO₂, VOC and occupancy sensors
- Elegant design
- Universal wall-mount design
- Used to configure and operate the EVCB VAV controllers
- Three wire connection between digital room sensor and controller
- Selectable Fahrenheit or Celsius scale
- BACnet service port via on-board mini USB connector
- Horizontal or vertical configuration

ALSO AVAILABLE

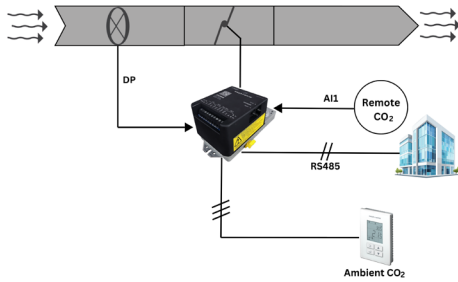


● STR1-11

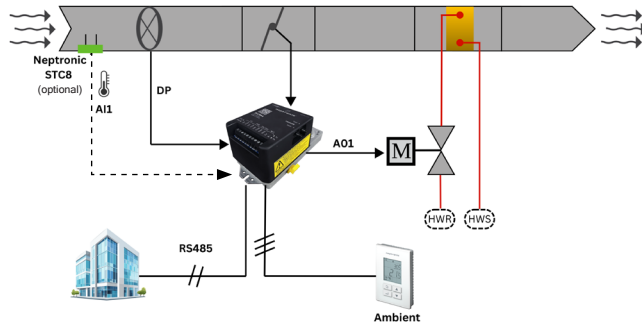
● TRL54

● TRL24

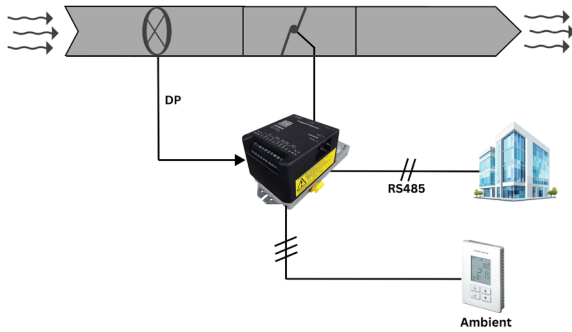
TYPICAL APPLICATIONS



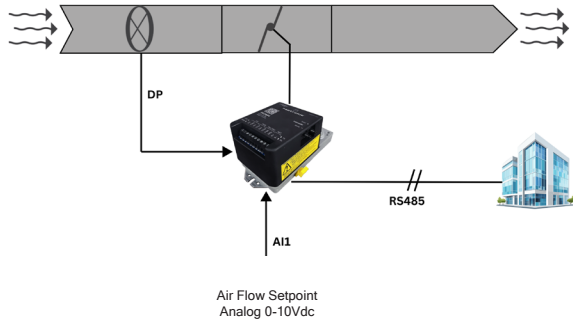
FRESH AIR DAMPER



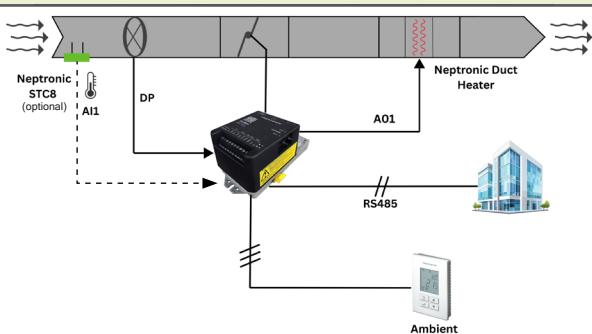
VAV TERMINAL UNIT WITH REHEAT (HOT WATER)



VAV TERMINAL UNIT COOLING ONLY



SELF BALANCING DAMPER



VAV TERMINAL UNIT WITH REHEAT (ELECTRIC)