

The EFCB Fan Coil Controller is designed for simple and accurate control of any fan coil application. The controller incorporates a configurable fan coil algorithm, variable three speed fan control and either modulating or digital heating and cooling outputs.

APPLICATIONS

- 2 or 4 pipe systems
- Fan coil unit (up to 3 speeds and/or analog 0-10Vdc)
- Cooling signal (on/off, floating or modulating 0-10Vdc)
- Heating signal (on/off, floating, pulse or modulating 0-10Vdc)
- Reheat signal (on/off, floating, pulse or modulating 0-10Vdc)

MODELS

Product	Model	Туре	Extra 3A Relay	
	EFCB10TU2	10TU2 24Vac	2	
	EFCB10TU4	Z4VaC	4	
	EFCB11TU2	120Vac	2	
	EFCB11TU4	1200ac	4	
	EFCB12TU2	240Vac	2	
	EFCB12TU4	240VaC	4	
Fan Coil Controllers	Middle East and Asian Markets			
	EFCB10T-0E1		0	
	EFCB10TU2-0E1	24Vac	2	
	EFCB10TU4-0E1		4	
	EFCB12T-0E1		0	
	EFCB12TU2-0E1	240Vac	2	
	EFCB12TU4-0E1		4	



FEATURES

- Available in 24, 120 or 240 Vac
- Up to 10 inputs and 15 outputs
- Real Time Clock (RTC) with 24 hour backup
- Configurable PI (Proportional-Integral) function
- Selectable proportional control band and dead band
- Independent cool/heat setpoint for NSB/OCC mode
- 3-speed or ECM (analog) fan control
- Selectable internal or external temperature sensor $(10K\Omega)$
- Changeover by contact or external temperature sensor
- Freeze protection
- · Removable, raising clamp, non-strip terminals

INPUTS/OUTPUTS

Inputs:

- 4 configurable analog inputs (0-10Vdc or 10KΩ)
- 3 dedicated sensor inputs
- · 3 configurable digital inputs

Outputs:

- 4 analog outputs (configurable)
- 4 TRIAC outputs (configurable)
- 3 fan outputs (configurable)
- Up to 4 digital outputs (configurable)

TFL - Digital Room Sensor

FEATURES

- Built-in temperature sensor and optional humidity and CO₂ sensors
- · Backlit LCD with simple icon and text driven menus
- BACnet service port via on-board mini USB connector
- · Selectable Fahrenheit or Celsius scale
- Three wire connection between digital room sensor and controller
- Used to configure and operate the EFCB Fan Coil Controllers

NETWORK COMMUNICATION

- BACnet MS/TP or Modbus RTU communication (selectable via menu)
- Select MAC address via DIP switch or via network
- · Automatic baud rate detection

BACnet MS/TP

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

Modbus RTU

- Modbus RTU @9600, 19200, 38400 or 57600 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- · Connects to any Modbus RTU master



TFL54 TFL

Model	Temp	Humidity	CO ₂	Туре
TFL54	•			3*3
TFL24	•			
TFLH24-INT	•	Internal		
TFLH24-EXT	•	External		2*4
TFLG24	•		•	
TFLGH24	•	Internal	•	

TDF - Universal Digital Room Sensors



Horizontal Models	Temp.	RH	CO ₂
● TDF10-100 ● TDF40-100 ● TDF70-100	•		
● TDF10-101 ● TDF40-101 ● TDF70-101	•	•	
● TDF10-102 ● TDF40-102 ● TDF70-102	•	•	•
● TDF10-103 ● TDF40-103 ● TDF70-103	•		•

TDF FEATURES

- Built-in temperature sensor and optional humidity, ${\rm CO}_{2^1}$ VOC and occupancy sensors
- · Elegant design
- Universal wall-mount design
- Used to configure and operate the EFCB Fan Coil 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







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Vertical Models	Temp.	RH	CO ₂	PIR	voc
● TDF00-100 ● TDF30-100 ● TDF60-100	•				
● TDF00-101 ● TDF30-101 ● TDF60-101	•	•			
● TDF00-102 ● TDF30-102 ● TDF60-102	•	•	•		
● TDF00-104 ● TDF30-104 ● TDF60-104	•			•	
TDF00-105TDF30-105TDF60-105	•	•		•	
TDF00-106TDF30-106TDF60-106	•	•	•		•
TDF00-107TDF30-107TDF60-107	•	•	•	•	•

