TAC-24 Low Voltage
Digital Controller

The TAC-24 range of Digital Controllers are designed for room wall mounting with LCD and 0 / 2-10VDC output. It uses a very advanced microproccessor with processing power to meet almost all requirements.

- Setpoint 5~50 ℃ with adjustable HI-LO limits
- Internal or external sensor
- P or PI function / Floating 3-wire
- Adjustable P-band and I-time / run time
- Adjustable Temperature off-set
- Key-card function for Energy Saving
- Set point / Room Temperature display options
- 0-10VDC / 2-10VDC selectable / 3-wire Floating

Function

All functions, settings are made using the menu system in the display.

SENSORS
The TAC-24 has a built-in NTC thermistor sensor. When an external remote sensor is connected, it automatically cuts out the internal sensor and revert to external sensing.

SET POINT
The temperature set point is set by pressing the + or - buttons and shown in the display, the setting range is 5℃ ~ 50℃ and High / Low limits can be preset in the menu mode if so desired. (see installation manual)

TEMPERATURE OFFSET
The room temperature display can be offset in the menu mode with + / - 8 ˚C in 0.5 ˚C steps. (see installation manual)

DISPLAY OPTIONS
User can choose to have both ROOM TEMPERATURE and SETPOINT TEMPERATURE on the LCD display and EITHER ROOM OR SETPOINT display only. (see installation manual)

OCCUPIED / UNOCCUPIED
To encourage Energy Saving, a potential-free contact is provided for connecting to either KEY-CARD or TIMER or presense sensor. When activated, the temperature setting will reset to a pre-determine temperature setting. (see installation manual)

All other functions and settings such as Heating / Cooling, P or PI, P-Band setting, I-Time setting, 0-10VDC or 2-10VDC signal output can be made via the menu mode. (see installation manual)

Models

Model	Functions
TAC-24PI	Wall mount Temperature Controller, 0/2-10VDC PI output.
TAC-24FL	Wall mount Temperature Controller, 3-wire Floating output.

Available Option:- a) White, Green or Blue backlight LCD (Standard is white)
b) Above models are also available with Modbus, RS485 communication (option)

Thermostat Function Keys

Action   **Functional Push Buttons**

Press ⏻   to toggle between POWER ON/OFF

Press +   to INCREASE set point temperature in steps of 0.5℃

Press −   to DECREASE set point temperature in steps of 0.5℃
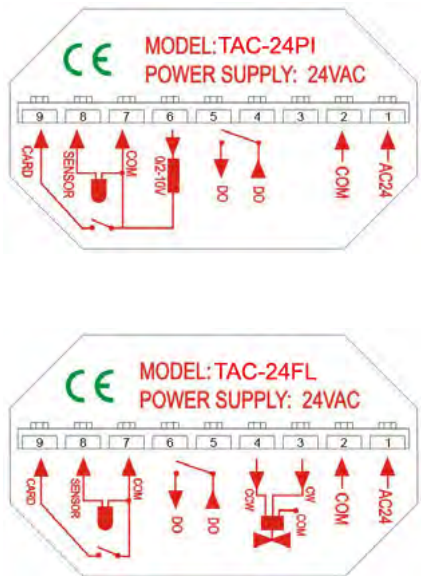
Press M   for 5 seconds to display room actual temperature or set point temperature momentarily.

(Note: For access into MENU MODE, please refer to installation manual)

Technical Data

Supply Voltage	-	24VAC / DC (Modulating model), 24VAC (3-wire Floating model)
Power Consumption	-	1.5VA
Ambient Temperature	-	0 ~ 55℃
Storage Temperature	-	- 10 ~ 60℃
Ambient Humidity	-	Max 85%
Protection Class	-	IP 30
Housing	-	ABS to UL 94-5 fire retardant plastic
Sensor type	-	Thermistor (NTC) 10k ohms at 25℃
Signal Outputs	-	0 ~ 10VDC or 2 ~ 10VDC, 1mA (Modulating) ; 3-wire (Floating)
Outputs	-	On/Off contacts, switch controlled

Wiring Connection

Dimensions