

# TVI 9 SERIES MODULATING LCD THERMOSTAT

## DESCRIPTION

TVI 9 series floating/modulating thermostat is mainly used in central air-conditioning heating and cooling system. It works with TSC series temperature sensor. It provides temperature control for central air-conditioning fan coil cooling / heating motorized valve or other electric actuator by control signal which produced by PID operation between actual tested ambient temperature and setting temperature. When electronic thermostat is power on or turn off, it can output return signal to make the motorized valve or other electric actuator return.



## CHARACTERISTICS

- Auto-return function when power on or turn off.
- Power surge and instant pulse protection.
- Overtime protection function.
- LCD (with backlight) showing ambient temperature and state.
- Percentage display corresponding to DC voltage output value. It does not refer to the open extent of the valve.
- Selectable external long-distance temperature sensitive element (NTC themistor).
- Cool/heat shift: clockwise or anti-clockwise signal output (summer or winter).
- With PC plastic housing, in compliance with UL-94V0 standard.
- With flexible installation and convenient wiring.

## TECHNICAL DATA

PRODUCT NAME	TVI-TD 9004	
POWER SUPPLY	AC24V	AC220/230V
OUTPUT	DC 0-10V 10mA	DC 0-10V 5mA
POWER CONSUMPTION	0.4VA (without load)	6VA (without load)
CONTROL PRECISION	±0.5□(±1°F)	
CONTROL RANGE	10□ ~ 30□ or 50°F ~ 86°F	
RETURN TIME	≥60s or ≥300s (for optional)	---
OVERTIME CUT OFF	Total runtime for valves in the same direction ≥60s (≥300s), turns into overtime protection state.	---
SENSITIVE ELEMENT	NTC thermistor 10kΩ (when at 25□)	
DISPLAY PRECISION	0.2□ / 1°F	
BACKLIGHT CONTROL	Button-press operation (It will automatically go out when stop pressing the button for 5 seconds).	
BACKLIGHT COLOR	Green-G, Blue-B, Yellow-Y (three backlight colors for optional)	
WORKING TEMPERATURE	0 ~ 55 □	
STORAGE TEMPERATURE	-10 ~ 60 □	
AMBIENT HUMIDITY	Max. 90% RH no condensation	

