



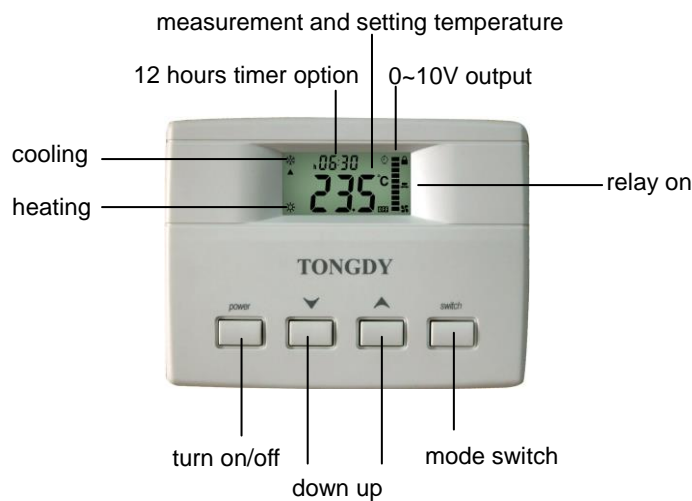
## F2000LV-A SERIES DATASHEET

Room Thermostat  
With Proportional-Action Control for VAV Terminals

### □ Features

- ◆ Designed to control the room temperature for VAV terminals with 1X0~10 VDC output to cooling/heating or 2X0~10 VDC outputs to cooling and heating dampers. Also one or two relay outputs to control one or two stages electric aux. heater.
- ◆ LCD can display working status such as room temperature, set point, analog output, etc. Makes reading and operating easy and accurate.
- ◆ All models feature user-friendly setting buttons
- ◆ Smart and enough advanced setup makes the thermostat being used in all
- ◆ Up to two-stage electric aux. heater control makes temperature controlling more accurate and energy-saving.
- ◆ Large set point adjustment, the mini. and max. limit of temperature preset by end users
- ◆ Low temperature protection
- ◆ Celsius or Fahrenheit degree selectable
- ◆ Cooling/heating mode auto changeover or manual switch selectable
- ◆ 12 Hours Timer Option can be preset 0.5~12 hours to turn off the thermostat automatically
- ◆ Two parts structure and quick wire terminal blocks make mounting easily.
- ◆ Infrared Remote Control (optional)
- ◆ Blue backlight (optional)
- ◆ Optional Modbus communication interface

### □ Buttons and LCD Display



Notice: The LCD details for different model is in its user manual.

**Specifications**

Power supply	24 VAC±10% 50/60HZ 18VDC~36VDC
Electrical rating	2 amp load per terminal
Sensor	NTC 5K
Temperature control range	5-35°C (41°F-95°F)
Accuracy	±0.5°C (±1°F) @25°C
Analog output	One or two analog outputs Voltage DC 0V~DC 10 V Current 1 mA
Protection class	IP30
Environment condition	Operating temperature: 0 ~ 50°C(32~122°F) Operating humidity: 5 ~ 99%RH Non condensing Storage temperature: 0°C~50°C (32~122°F) Storage humidity: <95%RH
Display	LCD
Net Weight	240g
Dimensions	120mm(L)×90mm(W)×24mm(H)
Material and colors:	PC/ABS Fireproofing house with white color
Mounting standard	Mounting on the wall, or 2"×4"/ 65mm×65mm pipe box

**Models**

Type	Model	Characteristic
VAV Room Thermostat Power supply: 24VAC/VDC	F2000LV-A-N	1X 0~10V output for an actuator of VAV terminal with cool/heat manual switch
	F2000LV-A01	1X 0~10V output for an actuator, 1X on/off contact output to a heater. Cool/heat manual switch.
	F2000LV-A02	1X 0~10V output for an actuator, 2X on/off contact outputs for 2-stage heater. Cool/heat manual switch
	F2000LV-A-Pro	1X 0~10V output for an actuator, an external sensor detects air duct temperature to change cool/heat automatically. Cool/heat changeover or manual switch can be selected.
	F2000LV-A01-Pro	1X 0~10V output for an actuator, 1X on/off dry contact output to a heater with an external sensor detects air duct temperature to change cool/heat automatically. Cool/heat changeover or manual switch can be selected.
	F2000LV-A-D	2X 0~10V outputs for cooling and heating dampers
	F2000LV-A01-D	2X 0~10V outputs for cooling and heating dampers, 1X on/off dry contact output to an aux. heater.
VAV Room Thermostat with Modbus interface Power supply: 24VAC/VDC	F2000LVC-A-N	1X 0~10V output for an actuator of VAV terminal with cool/heat manual switch. Modbus interface
	F2000LVC-A01	1X 0~10V output for an actuator of VAV terminal. 1X on/off dry contact output to heater. Modbus interface

OPTIONS		
Accessional Options	Timer of turn off <b>-TM</b>	Pre-set 12 hours turn-off timer when it can be turned off automatically.
	Remote Control <b>-R</b>	Infrared remote control

### Mounting and Wiring Diagrams

