A3100 Touchscreen Thermostats

General

The A3100 Touchscreen Programmable Thermostat is an effortless, 7-Day programmable thermostat that provides universal system compatibility, precise comfort control and is easy-to-program.

Simple and easy-to-read installation menu on LCD provide interactive interface when user sets up, programs and operates. Features like variable touchscreen security to prevent tampering, temporary and vacation overrides, and filter change reminders add convenience.

The A3101 Thermostats provide temperature control for gas, oil, electric and heat pumps for 1 heat, 1 cool systems.

The A3102 Thermostats provide temperature control for gas, oil, electric and heat pumps for up to 3 heat, 2 cool systems without humidity control.

The A3103 Thermostats provide temperature control for gas, oil, electric and heat pumps for up to 3 heat, 2 cool systems with humidity control.

Features

- Bright back-lit display with interactive touch screen
- Outdoor temperature display
- Supports Gas, Oil, Electric, and Heat Pump Systems, 3 heat / 2 cool.
- Powering methods：Common wire with battery backup
- 7-Day Programmable For Customization
- Large, clear display with backlight shows the current and set temperature and time.even in the dark.
- Menu-driven programming make setup effortless
- Beautiful ergonomic design is smart and sophisticated to match your customers lifestyle

- Touchscreen interaction
- Real-time clock keeps time during power failures and automatically updates to daylight savings.
- Change/check reminders let you know when to service or replace filters or batteries.
- Various Hold options allow you to override the program schedule, as desired.
- Armchair programming allows you to remove the thermostat from the wall for programming.

Performance

- Universal Dual-Powered choice of battery-powered or hardwired with battery back-up, for all single stage applications (installer selectable)
- Selectable Energy Management Recovery
- Meets ENERGY STAR specifications

- Fast (FA) or slow (SL) heating cycle anticipation
- Easy-to-wire terminal block
- B & O terminals
- Compressor lockout protection
- Millivolt compatible
- Electric heat option

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Specifications

Setpoint Temperature Range: 40 °F to 99 °F (5℃ to 32℃)

Rated Differential: Heat 0.6 °F; Cool 1.2 °F

Operating Ambient Temperature: 32 °F to 105 °F (0℃ to 41℃)

Operating Humidity Range: 90% non-condensing maximum

Shipping Temperature Range: -4 °F to 150 °F (-20℃ to 65℃)

Electrical Specifications

Power Supply:	2 AA batteries and 24Vac 50/60Hz
Current Load:	1.0 Amp (load per terminal)
	1.5 Amps maximum load (all terminals combined)
Sensing Element:	NTC
Terminals:	0.5-2 sq. mm cable
Operating Temperature:	0~45℃
Storage Temperature:	-20~55℃
Operating Humidity:	5~90%
Dimension:	152x114x29.8mm（H x W x D）

The touchscreen thermostat compatible with the Standard Systems as below:

- 1 heat/1 cool conventional (factory setting)
- Single-stage heat pump (no auxiliary heat)
- Heat only conventional (no fan) Also for 750mV
- Heat only conventional (with fan)
- Heat only (power to open and power to close zone valves or normally-open zone valves)
- Cool only conventional
- 2 heat/1 cool heat pump (with auxiliary heat)
- 2 heat/2 cool multistage conventional
- 2 heat/1 cool multistage conventional
- 1 heat/2 cool multistage conventional
- 2 heat/2 cool heat pump (no auxiliary heat)
- 3 heat/2 cool heat pump (with auxiliary heat)