

## A3700 Digital Thermostat

### General

The A3700 series thermostats are luxurious appearance with large LCD display screen. The thermostat are designed to operate with most gas, oil, electric boiler or 2-wire hot water heating, and air conditioning systems that have 24-volt or millivolt control.



### Features

- Latching relays for system compatibility
- Selectable applications satisfy personal demand
- AC24V with battery backup brings more safety, hidden batteries installation gives a clear and smooth appearance.
- High reliable stand-alone microprocessor increases anti-jamming ability
- 5+2 or 7 days 4 periods Programmable
- Low battery indicator(optional)
- Adjustable cycle rate
- 12/24 hour clock
- Large, easy-to-read LCD display with green backlight
- Easy, front load battery access
- Armchair programming allows you to remove the thermostat from the wall for programming
- Soft touch keypad
- Filter change indicator
- ° F/ °C selector

### Main Functions

- Room Temperature Setting
- Detect and Display Room Temp
- Cool/Heat/Auto mode selectable
- ° F/°C selectable indicator
- 12/24 hours clock
- Compressor short-cycle protection
- High/low temperature protection
- Selectable deadband setting
- Non-volatile memory
- 5+2 or 7 days 4 periods Programmable

### Specifications

Supply Voltage:  
Battery powered or AC24V with battery backup

Setpoint Range:  
41° F ~ 95° F (7°C ~ 35°C)

Setting Unit:  
± 1° F (± 1°C)

Accuracy:  
± 1° F (± 1°C)

Display:  
45 × 43.5mm LCD display

Mode Setting:  
Heat, Cool, Off, Auto and Emer

Thermostat Output:  
Rc Rh O B G Y1 Y2 W1 W2 Aux E L

Temperature Sensor:  
Inside NTC Thermistor:10K Remote sensor:100K

Enclosure:  
ABS

Backlight Function:  
15 seconds, Green light

Dimensions:  
140 × 95 × 28mm (W × H × D)

Hole Pitch:  
60mm or 83.5mm

Environmental requirements:  
Operating temperature range 0 ~ 40 °C,  
Humidity range 5 ~ 95%RH (non-condensing)

Mounting:  
Surface installing

Wiring:  
Screw-fixed

**Part No.**
**Non-Programmable Digital Thermostats**

Model Definitions Product Features	A3701 Single Stage	A3711 Single Stage	A3705 2 stage heat /1 stage cool	A3706 2 stage heat /2 stage cool
Backlight	✓	✓	✓	✓
Quick-connet wiring terminal	✓	✓	✓	✓
Static protection	✓	✓	✓	✓
° F/°C temperature read out	✓	✓	✓	✓
High/low temperature protection	✓	✓	✓	✓
Compressor short-cycle protection	✓	✓	✓	✓
Energy usage counter			✓	✓
1st stage temp.differential rating	✓	✓	✓	✓
Separate O&B terminal	✓	✓	✓	✓
Gas,Oil,Electric system	✓	✓	✓	✓
Heat pump system	✓	✓	✓	✓
Millivolt system	✓	✓	✓	✓
Battery operation	✓	✓	✓	✓
Non-volatile memory			✓	✓
Hardwired		✓	✓	✓
2nd stage temp.differential setting			✓	✓
Keypad lockout			✓	✓

**Programmable Digital Thermostats**

Model Definitions Product Features	A3702 single stage 5+2 days	A3703 single stage 7days	A3704 single stage 7days	A3707 2 heat /1 cool 7days	A3708 2 heat /2 cool 7days	A3709 2 heat /2 cool 7days	A3712 single stage 5+2 days	A3713 single stage 7days	A3714 single stage 7days
Backlight	✓	✓	✓	✓	✓	✓	✓	✓	✓
Front battery door	✓	✓	✓	✓	✓	✓	✓	✓	✓
Quick-connet wiring terminal	✓	✓	✓	✓	✓	✓	✓	✓	✓
Static protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
° F/°C temperature read out	✓	✓	✓	✓	✓	✓	✓	✓	✓
High/low temperature protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Compressor short-cycle protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto recovery	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filter check monitor	✓	✓	✓	✓	✓	✓	✓	✓	✓
4 periods teperature adjusment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hold&override	✓	✓	✓	✓	✓	✓	✓	✓	✓
Energy usage counter			✓	✓	✓	✓	✓	✓	✓
Universal days or 5+2 programmable	✓	✓	✓	✓	✓	✓	✓	✓	✓
1st stage temp.differential rating	✓	✓	✓	✓	✓	✓	✓	✓	✓
Separate O&B terminal	✓	✓		✓	✓	✓	✓	✓	
Gas,Oil,Electric system	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heat pump system	✓		✓	✓	✓	✓	✓		✓
Millivolt system	✓	✓	✓	✓	✓	✓	✓	✓	✓
Battery operation	✓	✓	✓	✓	✓	✓	✓	✓	✓
Non-volatile memory				✓	✓	✓			
Hardwired				✓	✓	✓	✓	✓	✓
2nd stage temp.differential setting				✓	✓	✓			
Keypad lockout			✓	✓	✓	✓			✓
Auto Changeover			✓	✓	✓	✓			✓
Remote sensor						✓			