

A3700 Series Thermostats

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

Model Definitions

Non-Programmable Digital Thermostat

Model Definitions	A3701	A3711	A3705	A3706
Product Features	Single Stage	Single Stage	2 stage heat /1 stage cool	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			✓	✓

Programable Digital Thermostat

Model Definitions	A3702	A3703	A3704	A3707	A3708	A3709	A3712	A3713	A3714
Product Features	single stage 5+2 days	single stage 7days	single stage 7days	2 heat /1 cool 7days	2 heat /2 cool 7days	2 heat /2 cool 7days	single stage 5+2 days	single stage 7days	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 tempearture 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						✓			

Specifications
Supply Voltage:

Battery powered or AC24V with battery backup

Enclosure:

ABS

Setpoint Range:

41°F ~ 95°F (7°C ~ 35°C)

Backlight Function:

15 seconds, Green light

Setting Unit:

± 1°F (± 1°C)

Dimensions:

140x95x28mm (WxHxD)

Accuracy:

± 1°F (± 1°C)

Hole Pitch:

60mm or 83.5mm

Display:

45x43.5mm LCD display

Environmental requirements:

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

Mode Setting:

Heat, Cool, Off, Auto and Emer

Mounting:

Surface installing

Thermostat Output:

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

Wiring:

Screw-fixed

Temperature Sensor:

 Inside NTC Thermistor:10K
 Remote sensor:100K