

# Electronic Hydronic Thermostat HBP



2 Circuit Control of Pump & Fan for Hydronic System



Non Programmable



- Save up to 28% on your heating costs
- Even temperature control
- LCD heater ON indicator
- LCD display with temperature
- White color with gray print
- 1 year warranty
- Uses AA batteries
- Electronic temperature sensing is the most accurate technology
- 3 minute cycle rate reduces temperature swings and increases comfort at all control settings
- Complies with all codes requiring anticipated or electronic thermostats
- Dual single pole design with three wires
- Shallow design allows more wiring room inside full electrical boxes
- Flame icon heat indicator, low battery indication



## Ordering Information

MODEL	UPC	TYPE	PACKAGING	WIRE LEADS	VOLTS	AMPS Per Pole	TEMP. RANGE
HBP	19051	5+1+1 Day Electronic Programmable	Box (50 pieces)	3 Wire	120/208/240	16	40°F-95°F

## The HBP Electronic Thermostat

This HBP Series was intended to be used as a 2 circuit thermostat controlling a circulation pump and a fan on a hydronic coil heating system, though it could have other uses where you need a 2 circuit control with a 1 minute delay on the 2nd circuit. This control will solve the historic problem of using a standard 22 Amp bi-metal heating thermostat on a hydronic system which require high Amp loads to be accurate. Without a load on a Bi-metal thermostat it will not shut off circulating hot water when not needed. This HBP control positively controls both circuits creating energy savings, superior control and comfortable living spaces.

## Installation

This line voltage device should be installed and serviced by a qualified electrician. The thermostat has been designed to mount to a standard 2" X 4" electrical outlet box. Leveling of the thermostat is not required. Mounting screws are provided. Mount the thermostat about five feet above the floor in an area with good air circulation. Avoid mounting the thermostat where it will be affected by drafts, air from ducts, and radiant heat sources such as appliances, the sun or plumbing pipes. Typically the best location is above a light switch for that room.

## Technical Specifications

### Temperature Range:

40°F to 95°F (4°C - 35°C)

**Temperature Default:** 68°F (20°C)

**Display Format:** LCD

**Display Size:** Large Format

**Sample Rate:** Every 60 seconds

**Delay On or Off:** 3 minutes

**Heat Indicator:** LCD "heater on"

**Relay Rating:** 16 Amps

**Relay:** AA battery powered

**Accuracy:** ± .9°F @ 2000W

**Maximum Amps:** 16 resistive

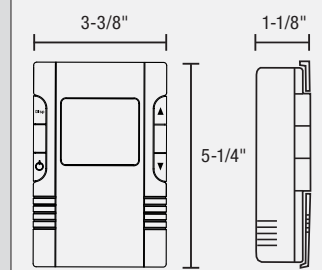
**Maximum Watts:** 3840 @ 240V -  
3328 @ 208V - 1920 @ 120V

**Minimum Watts:** 0

**Power Supply:** 1-240VAC / 1-30VDC

- 16 Amps at 240V, 3840 Watts.
- 16 Amps at 208V, 3328 Watts.
- 16 Amps at 120V, 1920 Watts.
- Three wire installation.
- Snap action relay built-in.
- Wire leads #12 AWG.
- No depth into wire box.
- 40°F to 95°F (4°C to 35°C) set point range.
- Dual switch operation.
- Electronically anticipated.
- Battery operated by AA batteries
- Thermistor sensor.
- Contemporary styling.
- Digital thermometer/set point.
- LCD display.
- Meets all energy requirements.
- 1.5 degrees maximum.
- 3 min. delay between cycles.

### Dimensional Data



### Wiring Diagram

120/208/240

