Z-Wave Communicating Thermostat

- 4.3", Backlit LCD Display with Integrated "In-Cell" Touchscreen for Higher Resolution vs. Standard LCD
- Runs on 2 or 4 – AA Cells OR Standard HVAC 24VAC
- Extremely Long Life – 1.5 Years on 4 – AA Alkaline
- Front Loading Battery Compartment
- Fixed Format Display with 17 Letter Message Bar
- Z-Wave OTA (Over The Air) Upgradability
- Standard or Heat Pump HVAC Systems
- Monitors, Displays and Reports Relative Humidity
- Programmable, 4 X 7 Schedule
- Remote Screen Locking Feature
- Remote Control of Thermostat Functions

Overview
The TBZ70 is a battery powered Z-Wave enabled wireless digital thermostat, designed to control HVAC systems. The TBZ70 contains a robust thermostat interface and is designed for use with networked systems where remote monitoring and/or remote control are desired.

Thermostat Features
- Local temperature display on a backlit LCD
- Set Point & Humidity display and control
- System Mode (Off, Auto Changeover, Heat, Cool)
- Fan Mode display and control (Auto, Manual On)
- On-screen setup of HVAC Type, Fan Type, Change over type for Heat Pump systems, & sensor calibration
- Degrees Fahrenheit or Celsius Modes
- Compatible with the majority of conventional HVAC systems

Technical Specifications
HVAC System Compatibility
- Central HVAC systems or separate heating/cooling systems; can use separate RH/RC transformers (split)
- Standard gas/electric HVAC Systems: 2-stage heating, 2-stage cooling
- Heat Pump HVAC Systems: 3-stage heating, 2-stage cooling
- Fan system: Selectable for gas or electric heat systems
- Heat Pump Change Over Valve (reversing valve): Selectable for Change Over with Heat or Cool
- Emergency Heat: In Heat pump mode, Emergency Heat mode is directly selectable from the thermostat
- Compressor short cycle protection delay – Adjustable
- Automatic heating and cooling changeover when in Auto Mode
- Fan Cycler feature

Wiring Requirements
- 18 AWG
- Uses standard thermostat connections

<table>
<thead>
<tr>
<th>System Type</th>
<th>C</th>
<th>R</th>
<th>G</th>
<th>W1</th>
<th>W2/O</th>
<th>Y1</th>
<th>Y2</th>
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<tr>
<td>Gas/Electric</td>
<td>24V Com</td>
<td>24V Return</td>
<td>Fan</td>
<td>Heat Stage 1</td>
<td>Heat Stage 2</td>
<td>Cool Stage 1</td>
<td>Cool Stage 2</td>
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<tr>
<td>Heat Pump</td>
<td>24V Com</td>
<td>24V Return</td>
<td>Fan</td>
<td>Aux Heat Strips</td>
<td>Changeover</td>
<td>Compressor Stage 1</td>
<td>Compressor Stage 2</td>
</tr>
</tbody>
</table>

Power Requirements
- Battery or 24VAC Powered: 4 – AA cells
- Note: 24V operation requires both 24VAC (R) and 24VAC common (C) wires from the HVAC System

Dimensions
- 5¾"x4¾"x1"

Model Number
- TBZ70 Z-Wave Thermostat Part No: 001-02233