

## TS200 Series Sensor

### *Self-Contained Interoperable Controller Model UCP-1*

SUPERSEDES: February 14, 2012

EFFECTIVE: August 21, 2012

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_  
 Date: \_\_\_\_\_ Tag/Item #: \_\_\_\_\_

## TS200 Series Sensors

iWorx® TS200 Series Sensors are a family of wall-mounted thermostats for use only with iWorx® BZU3 Zoning Controllers. These sensors feature a pulse communication protocol which provides an interface for exchange of sensor and control information. Control information includes temperature setpoints, manual and timed temperature override selection, system mode, and fan mode.

### Overview

The iWorx® TS200 Series Sensors are available in three models.

**Table 1: Product Information Table**

Thermostat Model	Description	Keypad	Sensors
TS202-1	Room Air Sensor with setpoint adjustment and override. Heat only.	Six Button Keypad with On/Off control.	Air Temp Only.
TS203-1	Room Air Sensor with optional TRP floor temp sensor, setpoint adjustment, and override. Heat only.	Six Button Keypad with On/Off control.	Air and Floor Temp Sensors.
TS204-1	Room Air Sensor with optional TRP floor temp sensor, setpoint adjustment, override, and fan mode control. Heat and cool. BZU3 must be associated to a DXU-series controller for cooling.	Seven Button Keypad with Mode and Fan control.	Air and Floor Temp Sensors.

### Features

- Contemporary, low-profile packaging.
- Blue backlit LCD display; displays setpoints or current temperatures.
- Digital zone temperature indication.
- Dual temperature (air and floor) capabilities (TS203 and TS204 models)
- Pushbutton override capabilities allow occupants to override the system schedule and switch to local operation.
- Timed overrides can be selected for 1-4 hours.
- Manual overrides to change temperature setpoint permanently.
- Displays selected system values such as space temperature, setpoints, system operating mode, and fan mode.
- Separate wiring subbase and electronics.

## Specifications

### Sensors

#### Temperature Sensor

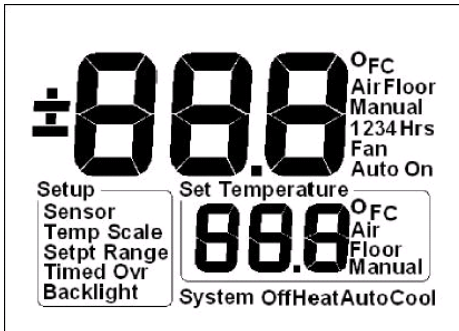
- Type: Precision thermistor
- Accuracy:  $\pm 1$  °F (0.6 °C)
- Range: 40 to 122°F (4.5 to 50 °C)

### General

#### Enclosure

- Dimensions: 4-1/2 H x 3 W x 1-1/2 D in (114 x 76 x 38 mm)
- Hinged keypad cover
- White ABS/PC Plastic

#### Display



- Not all display segments used by all TS200 series models.

### Weight

- Thermostast Weight: 0.2 pounds (0.09 kilograms)
- Shipping Weight: 0.35 pounds (0.16 kilograms)

### Wiring Terminals

- Six (6) screw terminals. AWG #18 to #22 (0.823 mm<sup>2</sup> maximum) wire

### Wire Length

- 100 feet max. (30 meters) between thermostat and BZU3 or floor sensor

### Electrical Rating

- 24 VAC, Class 2

### Setpoint Range

- Selectable:
  - a. 69°F +/- 5°F (20.5°C +/- 5°F)
  - b. 69°F +/- 7°F (20.5°C +/- 7°F)
  - c. 69°F +/- 10°F (20.5°C +/- 11°F)

### Units

- °F or °C

### System Mode

- TS202, TS203 - On/Off
- TS204 - Heat/Cool/Auto/Off

### **Fan Mode**

- On/Auto (TS204 only)

### **Override**

- Up to 4 hour timed override or continuous manual override

### **Ambient Limits**

- Operating temperature: 40 to 122 °F (4.5 to 50 °C).
- Shipping and storage temperature: -4 to 131 °F (-20 to 55 °C).
- Humidity: 0 to 95% RH, non-condensing

### **Agency Listings**

- UL-916 (Category PAZX)
- UL Listed to Canadian Safety Standards (CAN/CSA C22.2)

### **Agency Compliances**

- "FCC Part 15 Subpart J, Class B

## **CONTROLS MADE EASY®**

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