

The XR4-TH1 is a battery-operated, temperature and humidity sensor with a microprocessor-controlled 418 MHz radio transmitter. A tamper-resistant switch allows the user to activate or deactivate the sensor. The XR4-TH1 remains in an inactive state unless transmitting data to a remote server. User customization allows for setting transmit intervals.

### FEATURES

- Battery life of approximately 3 years
- Max transmission range of 600'
- Slow response sensor resists short-term temperature spikes
- Works in conjunction with up to 99 other sensors
- Low-cost remote sensing, monitoring, data collection, reporting, and automatic e-mail notification of sensor values



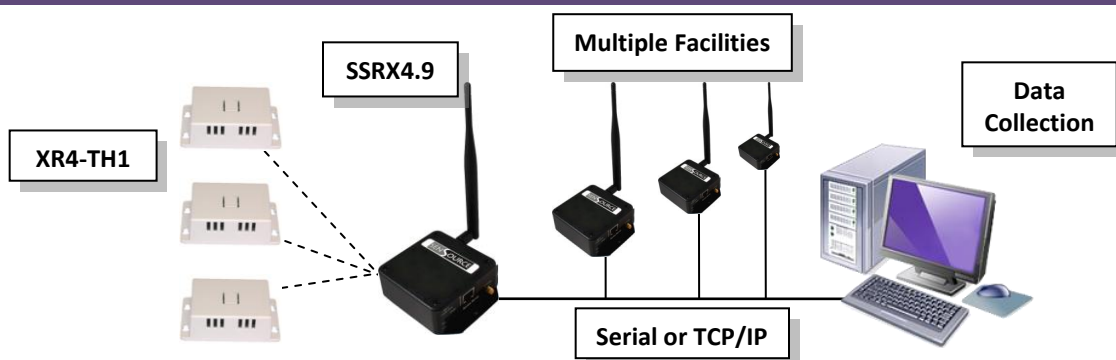
### SPECIFICATIONS

	TYP	MIN	MAX	UNITS
Transmission Rate	15	10	17	Seconds
Transmission Range (Indoor/Outdoor)		200 (indoor)	600 (outdoor)	Feet
Battery Life (Active/Inactive)	3 (active)	-	10 (inactive)	Years
Storage/Operating Temperature	-	-40	185	°F
Temperature Accuracy (at 77° F)	± .54	-	-	°F
Humidity Accuracy (20% - 80% RH)	± 3%	-	-	-
RH Linearity	± .5%	-	-	-
RH Hysteresis	-	-	± 1.2%	-
RH Repeatability	± .5%	-	-	-
RH Response Time (at 77° F)	15 (slow-moving air)			Seconds
RH Stability	± 1%	-	± 50% (5 yrs)	-
True RH (Formula)	(Sensor RH) / (33.89828 – 32.00388)			°F
Battery	3.6v Lithium	-	-	-
Weight	1	-	-	Ounces
Dimensions	2.5 W x 2.0 H x 1.0 D			Inches

### ORDERING

- |  |                       |
|--|-----------------------|
| • Battery-operated Temperature and Humidity Sensor       | <b>XR4-TH1</b>        |
| • RF Data Receiver Sensor Server                         | <b>PCW-SSRX4.9</b>    |
| • Remote Monitoring, Data Collection, Reporting Software | <b>Server Manager</b> |

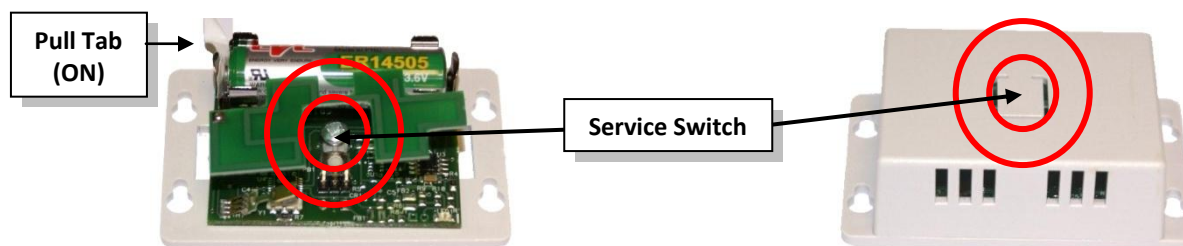
### CONFIGURATION



## SETUP

- If using **Server Manager**, install the software **prior** to installing the XR4-TH1 and/or configuring the Sensor Server.
  - Refer to the installation CD and associated software help files for more information.
- If monitoring servers via a web browser, establish a network connection with the Sensor Server using an Ethernet connection.
  - Refer to the manual/quick-start guide for more information on configuring the Sensor Server.
- Install and configure the Sensor Server (PCW-SSRX4.9) **prior** to installing the XR4-TH1.
  - Refer to the manual/quick-start guide for more information on configuring the Sensor Server.
  - **Server Manager:** the Sensor Server **must** be placed in **Auto Add Mode** or **Service Mode** prior to activating the sensor.
    - Use Server Manager to configure hardware, monitor sensors, download data, generate reports, and automatically notify of sensor values.
  - **Web Browser:** once configured, by typing the Sensor Server's IP address into the address bar of the browser, the Sensor Server's status and current value of all remote sensors will display on the page.

## DEVICE OPERATION



## ON/OFF

- When shipped, the device is off, and will not transmit until battery power is applied.
- To apply battery power to a new unit, open the enclosure, and then remove the insulating paper strip (pull-tab).
  - The device will begin to transmit cycles within 4 minutes.
    - To force transmission to begin immediately, activate the service switch.
- To turn off the sensor (no transmission), remove the battery or replace the insulating strip (pull-tab).

## SERVICE SWITCH

- When the service switch is activated, by pushing twice within 5 – 10 seconds, the device will transmit a status mark to the Sensor Server, along with the current sensor values.
- When the Sensor Server's sensor **Add Mode** is set to **Service Mode**, sending a service signal will cause the Sensor Server to recognize the new sensor and begin communicating with it.
  - Refer to the Sensor Server manual or the Server Manager Help files for details on adding sensors.

## BATTERY REPLACEMENT

- To replace the battery, remove the enclosure cover, and carefully pull out the 3.6V lithium battery.

## MOUNTING

- To mount the unit, insert mounting screws into the four holes located on the base of the XR4-TH1 (two on either side) and screw into desired surface.



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**FCC ID: M5ZWOWTHL**  
**MADE IN USA**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

#### FCC Radio Frequency Interference Statement

Temperature/Humidity Sensor

FCC ID: M5ZWOWTHL

NOTE: This equipment has been tested and found to comply with the limits for the Class B digital device, pursuant to part 15, Subpart B, of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause interference to radio communications.

The limits are designed to provide reasonable protection against such interference in a residential situation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the affected radio or television
- Increase the separation between the equipment and the affected receiver
- Connect the equipment and the affected receiver to power outlets on separate circuits
- Consult the dealer or an experienced radio/TV technician for help.

#### MODIFICATIONS

Changes or modifications, not expressly approved by SenSource, Inc. could void the user's authority to operate the equipment.