SNS™ Temperature Sensors User Guide

Notices

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Introduction

This user guide describes the features and installation of Primex Wireless Synchronous Network System (SNS™) temperature sensors.

SNS temperature sensors are equipped with both a wireless 802.11 b/g interface and a wired Ethernet port interface. Because the sensors support both wired and wireless communications, they integrate easily into an existing network.

SNS Temperature sensors can be installed anywhere indoors within range of an 802.11 b/g access point. The temperature sensors are able to connect via an existing wireless LAN (WLAN), supporting a wide variety of security protocols.

The initial setup procedure for all SNS temperature sensors can be done in a convenient central location such as a maintenance area or at the final location of the temperature sensor by using the **Browser-based Configuration Tool** or the discovery mode available in Primex's **Applications Management Platform (AMP™)**. Once the temperature sensors are configured, settings can be altered using AMP.

AMP has features to determine the signal strength of the temperature sensor's reception. The temperature sensors connect to the WLAN at defined intervals configured with AMP or immediately if there is an alert. Any changes in configuration of a temperature sensor via AMP will be transmitted to the temperature sensor the next time the temperature sensor connects to the WLAN. For detailed instructions on the use of the Browser-based Configuration Tool, please see the Primex Wireless **SNS™ Browser-based Configuration Tool User Guide**. For detailed instructions on the use of AMP, please see the Primex Wireless **Applications Management Platform (AMP™) User Guide**.

Precautions and regulatory compliance statements

This section contains mandatory precautions and regulatory compliance statements.

Safety precautions

SNS temperature sensors are designed for indoor use only and are not weather protected. Operating the temperature sensor outdoors, or in wet areas is an electrical hazard and may damage the temperature sensor while nullifying the warranty.

Equipment precautions

- To avoid possible electric shock and damage to an SNS temperature sensor, make sure that it is unplugged when working on it.

- For healthcare facilities, temperature sensors are not intended for patient use and must not be installed within 6ft (2m) of patient contact.

- SNS temperature sensors are cleanable with a cloth moistened with water or a common disinfectant.

Caution   Be sure to test any cleaning solutions on a small area of the temperature sensor before using it on the entire temperature sensor.

FCC compliance

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC radio frequency interference

This equipment has been tested and found to comply with the limits for a Class B analog device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 receiver's antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC radiation exposure limits

To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 20 cm is required between the antenna and all persons.

SNS temperature sensor specifications

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Temperature sensor model	Input power	Current draw	Operating range
SNS7ATPD	6-12V⎓	300mA@9V⎓	32°F to 95°F (0°C to 35°C)

SNS temperature sensor parts and accessories

Description	Part number
Thermistor, AC temperature sensor , -22°F to 212°F (-30°C to 100°C)	SNS6C1
Glycol bottle thermobuffer	SNSGTP
Glycol solution, 1 gallon	SNSGLY-1

Installing SNS temperature sensors

This section presents the following topics:

- **Mounting an SNS temperature sensor unit**
- **Connecting the power supply**
- **Connecting sensor probes**
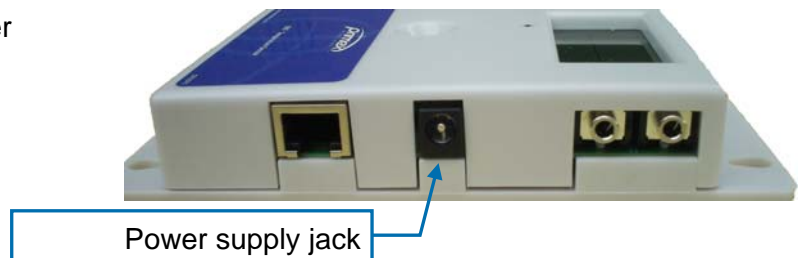- **Connecting the network cable**

Mounting an SNS temperature sensor unit

All SNS temperature sensors come with self-adhesive hook-and-loop mounting tape.

Note The operating range of the SNS temperature sensor unit is 32° - 95°F (0° - 35°C). If you're monitoring temperatures in a freezer, the sensor unit must be mounted outside the freezer.
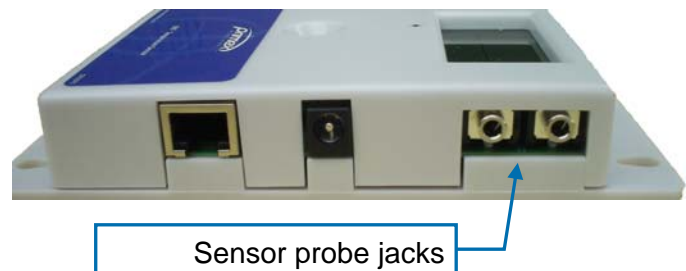
Connecting the power supply

Insert the power supply plug into the power supply jack.

Power supply jack

Connecting sensor probes

Insert the sensor probe plug into one of the two sensor probe jacks.

Note You may use either one or two sensor probes with the SNS temperature sensor unit.

Sensor probe jacks

Connecting the network cable

Insert a network cable with an RJ-45 plug into the network cable jack.

Note It's only necessary to connect a network cable if wireless network coverage is not available.

Network cable jack
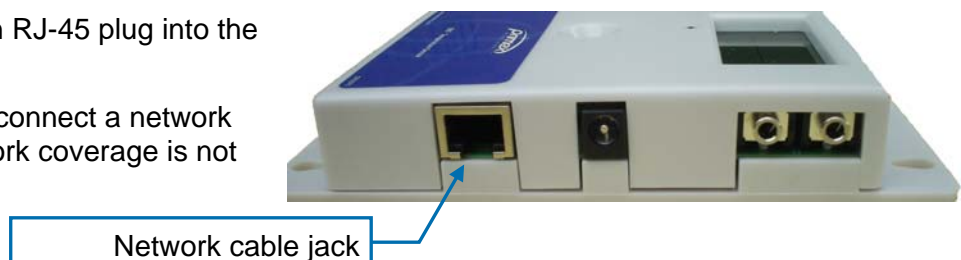
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