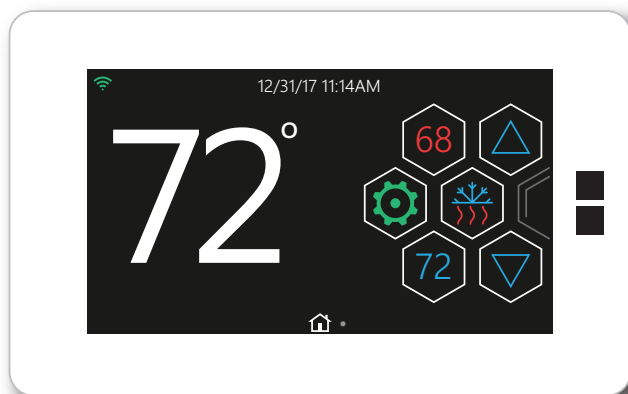


# TECHNICAL GUIDE

## Hx3™ TOUCH SCREEN THERMOSTAT

MODEL: S1-THXU430W



Energy Saver



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at [www.upgnet.com](http://www.upgnet.com)

### WARRANTY SUMMARY\*

Standard 5-Years limited parts warranty.

## DESCRIPTION

Johnson Controls, Unitary Products specializes in creating a customized home comfort system tailored to the homeowners needs with our broad selection of residential heating and cooling products. The thermostat is the ultimate control center for all of your system components. When you add a thermostat to a compatible modulating, variable-speed furnace or air handler, and an air-conditioner or heat pump, you'll enjoy longer heating and cooling cycles at lower fan speeds for a more consistent temperature throughout your home, better humidity control, as well as a more energy-efficient comfort system.

## FEATURES & BENEFITS

- Wireless Compatible.
- Access Remotely with Apple and Android Devices.
- High definition color, Touch screen interface.
- Incorporates graphics and animation.
- Conventional or communicating wire installation from each component in the system.
- Intuitive on-screen prompts for ease of installation and service.
- Over The Air (OTA) software updates.
- Detailed system staging operation.
- Complete integration of temperature control, humidity control, and ventilation in every season.
- Ventilation limits to ensure outside air is not introduced in extreme hot or cold conditions - no extra heating or cooling load.
- Programmable or non-programmable mode selection.
- App based 7-day programmability with 2 or 4 periods per day.
- Quick Heat/Quick Cool functionality.
- Day-at-a-glance programming for simplified ease of use.
- Easy timed-override schedule.
- Programmable fan by period.
- Energy saving opportunity.
- Indoor Air Quality pop-up replacement reminders.
- General maintenance reminder messaging.
- Near Field Communication (NFC) allows programming the Touch-screen thermostat with an Android Dealer App, available on [www.upgnet.com](http://www.upgnet.com).
  - Allows the dealer to display the brand logo.
  - Can be used for communicating or conventionally wired systems.

## MODEL NUMBER NOMENCLATURE

S1 - T H X U 430 W A

<b>S1</b>	Source 1
<b>T</b>	Thermostat
<b>H</b>	Home
<b>X</b>	Extra Premium
<b>U</b>	Universal
<b>430</b>	Model Number
<b>W</b>	W = White
<b>A</b>	Revision A

**FEATURE SPECIFICATIONS**

- Apple Watch
- Amazon Alexa
- Full-Color Touchscreen
- Large Temp Display
- Quick Heat / Quick Cool
- 2.4 GHz Wi-Fi
- Over-the-Air Software Updates
- Maintenance Reminders
- Fault Display & Log
- Works with Existing Equipment
- NFC Configuration (Android)
- Temperature set point range: 50F to 90F / 10C to 32.2C
- Separate heat and cool setpoints
- Programming days: 7 day
- Programming periods:
  - 2 Periods: Away, Leave
  - 4 Periods: Awake, Leave, Return, Sleep
- Non-Programmable
- Auto Changeover (may be disabled)
- Programmable fan
  - Always on, 15 minutes per hour, 30 minutes per hour and 45 minutes per hour
- Humidity Sensor Offsets
- Smart Recovery (in heating and cooling)
- Permanent memory
- Humidity display and control
- Temperature sensor offsets (indoor)
- Setup Prompts
- Setup Auto Configuration
- Display System Faults
- ERV/HRV interface
- Condensate overflow interface
- Ventilation control
- Homeowner App
- Hx Pro, Dealer Access App
- Wireless accessibility with Apple and Android Devices.

**ENVIRONMENTAL REQUIREMENTS****Operating Temperature/Relative Humidity:**

User interface and all sensors: 32F to 104F / 0C to 40C, 95% RH non-condensing.

**Storage Temperature/Relative Humidity:**

User interface: -40F to 135F / -40C to 57C, 95% RH non-condensing.

**WIRING REQUIREMENTS****Power supply:**

Dedicated 24VAC, 40 VA, 60 Hz, via indoor equipment, R & C wires. Isolated transformer, field supplied.

**Wiring material:**

Standard thermostat wire 18 to 24 gauge.

**PRODUCT DATA INFORMATION - STANDARD****Compatible Products:**

All Johnson Controls Unitary Products non-communicating and communicating capable Air Conditioners, Heat Pumps, Air Handlers, and Furnaces.

**PHYSICAL CHARACTERISTICS****Dimensions:**

See drawing

**Appearance:**

Plastic, white color, textured

**Electrical Characteristics/Standard****Input Volts/Amps 24VAC:**

- (\*) Conventional = 24VAC (De-Hum/Hum)
- (\*) Heat Pump = 24VAC O/B (Reversing Valve)
- (R) 24VAC (Hot)
- (C) 24VAC (Com)
- (Y1) 24VAC (Cool)
- (Y2) 24VAC (Cool 2-stage)
- (G) 24VAC (Fan)
- (W1) 24VAC (Heat)
- (W2) 24VAC (Heat 2-stage)

**PRODUCT DATA INFORMATION - COMMUNICATING****Physical Characteristics****Compatible Communicating Products**

MODEL DESCRIPTION	YORK	COLEMAN	LUXAIRE
Air Conditioning	CZF, CZH, YXT, YXV	AC6, AC8, AC19, AC21	AL6, AL8, AL19, AL21
Heat Pumps	YZF, YZH, YZT, YZV	HC6, HC8, HC19, HC20	HL6, HL8, HL19, HL20
Gas Furnaces	YPLC, YP9C, TM9V, TM8V	CPLC, CP9C, TM9V, TM8V	LPLC, LP9C, TM9V, TM8V
Air Handlers	MVC, MV, AV*, AHV, AVC, AVV	MVC, MV, AV*, AHV, AVC, AVV	MVC, MV, AV*, AHV, AVC, AVV

**Dimensions:**

See drawing

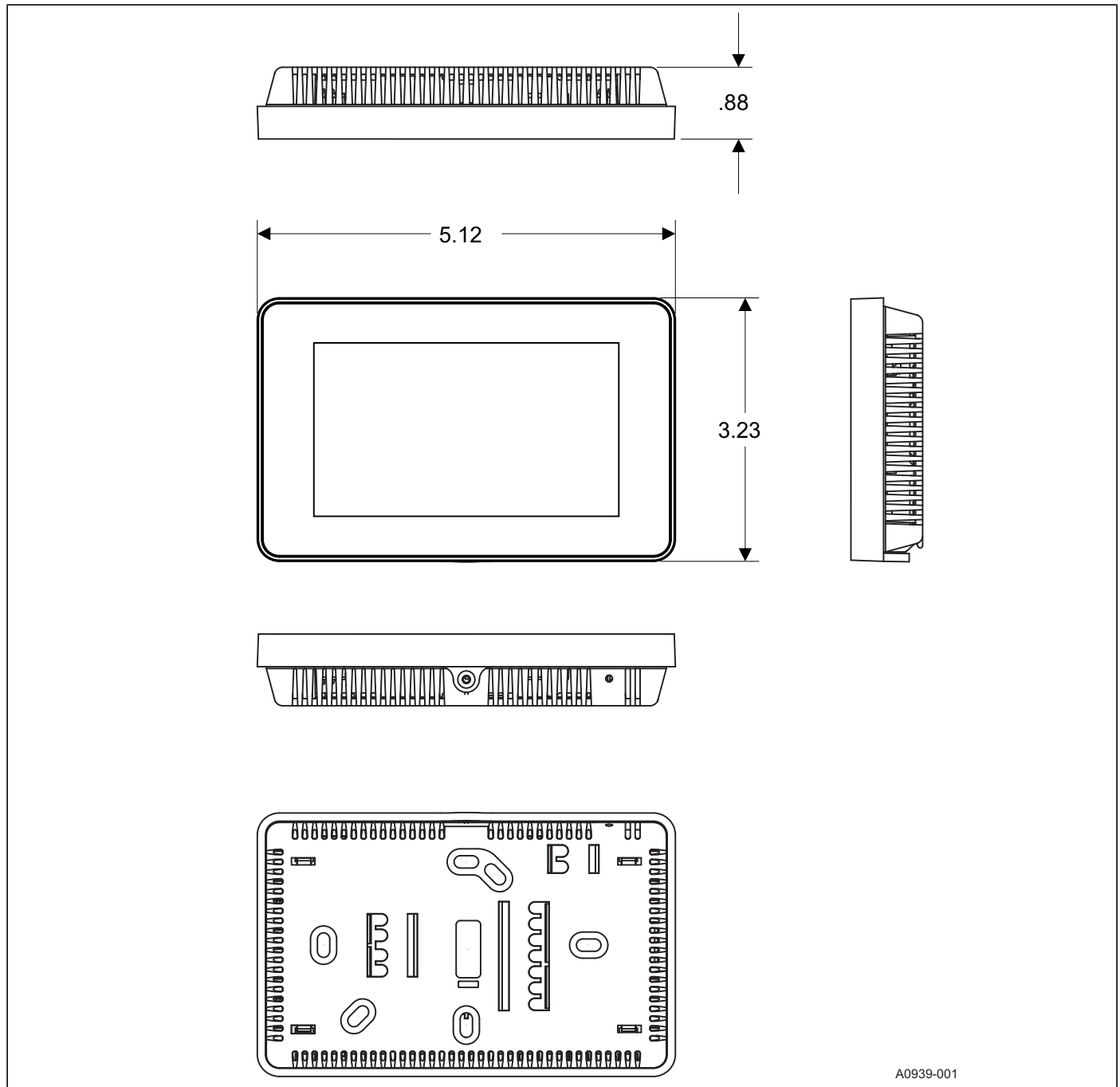
**Appearance:**

Plastic, white color, textured

**Electrical Characteristics/Communication****Input Volts/Amps 24VAC:**

- A+ Green = Data A+
- R Red = 24 Vac (HOT)
- C Black = 24 Vac (COM)
- B- White = Data B-

**PRODUCT DIMENSIONS**



A0939-001

**EQUIPMENT**

**Equipment**

PART NUMBER	DESCRIPTION
S1-THXU430W	Hx3™ Thermostat

**Optional Accessories**

PART NUMBER	DESCRIPTION
S1-02817577000	J-Box Back Plate (10 pk)
S1-02542694000	Communicating Wire Harness
S1-02542683000	Outdoor Sensor

# NOTES