



## WiFi Smart Thermostat Datasheet

13 models. App and voice controlled room thermostats for buildings that are managed remotely.

|                                     |                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------|
| <b>Manufacturer</b>                 | Dongguan Xiangyun Import and Export Co., Ltd                                      |
| <b>Address</b>                      | No. 7, Lane 5, Taifa Road, Xiegang Town, Dongguan City, Guangdong Province, China |
| <b>Email</b>                        | laurel@thermsmarthome.com                                                         |
| <b>WhatsApp and phone</b>           | +8618820035458                                                                    |
| <b>Focused on thermostats since</b> | 2011                                                                              |
| <b>Compliance</b>                   | RoHS, CE, UL, FCC, CSA, CCC, ISO 9001                                             |

Generated from the same product records that drive thermsmarthome.com, so the specifications here and on the website are always the same.

## Why buyers specify this category

- Models covering 2.4 GHz only and dual band 2.4 GHz plus 5.0 GHz
- Alexa voice control across the range
- Local keypad and schedule keep running when the network is down
- Dual protocol WIFIRF models keep an 868.35 MHz link to the receiver

## Problems it solves

- Site visits just to change a setpoint in an empty property
- Connected controls that stop working when the network drops
- Separate connected part numbers for scheduled and unscheduled rooms

## Models

### LCD WIFI RF Programmable Gas Boiler thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Gas Boiler Thermostat, Underfloor Heating Thermostat, Programmable Thermostat

STN855W is the WiFi version of our universal platform. It keeps the same staging as the wired STN855, up to 2 heat and 2 cool on conventional systems and up to 3 heat and 2 cool on heat pumps, and adds app control over WiFi. Programming runs 7 day or 5/1/1 with auto changeover, and the unit takes either 24V power or AAA batteries.



#### Key benefits

- App control lets landlords and facility teams adjust rooms they are not standing in
- Universal staging means one connected model covers conventional and heat pump equipment
- Auto changeover removes the seasonal mode switch from the occupant's list of jobs
- Runs on 24V or AAA batteries, so it retrofits into wiring without a common conductor

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Model</b>         | STN855W                                     |
| <b>Power Supply</b>  | 24V or AAA BATTERIES                        |
| <b>Backlight</b>     | Blue                                        |
| <b>Color</b>         | White                                       |
| <b>Material</b>      | Anti-flammable PC +ABS                      |
| <b>Application</b>   | Room Underfloor Heating Thermostat/Indoor   |
| <b>Function</b>      | Floor Heating System Package Carton packing |
| <b>Feature</b>       | Save Energy                                 |
| <b>Certification</b> | CE RoHS                                     |

### Smart thermostat wifi lcd display air conditioner room thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Air Conditioner Thermostats, HVAC Thermostat, Electric and Gas Thermostat, Programmable Thermostat

STN2020 is a WiFi connected 24V room thermostat for hotel and residential air conditioning, controlling 1 heat and 1 cool under a 5/1/1 programme. It is designed with private label work in mind: a simple badge system lets a buyer put their own brand on the front without new tooling. The LCD has a blue backlight and a glow in the dark light button, and the battery compartment is reachable without removing the unit from the sub-base.



#### Key benefits

- Badge system puts a buyer's brand on the front without tooling changes
- Glow in the dark light button is findable in a dark hotel room
- Easy access battery compartment cuts maintenance time across a hotel floor
- Universal sub-base with colour coded terminal blocks shortens installation

|                      |                        |
|----------------------|------------------------|
| <b>Model</b>         | STN2020                |
| <b>Power Supply</b>  | 24V Package Carton Box |
| <b>Color</b>         | White                  |
| <b>Material</b>      | ABS+PC                 |
| <b>Application</b>   | Hotel                  |
| <b>Type</b>          | HAVC System            |
| <b>Certification</b> | CE                     |
| <b>Warranty</b>      | 1 Year                 |

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| After-sale Service | National Joint Guarantees, Other, Return and Replacement |
|--------------------|----------------------------------------------------------|

24V Non-Programmable Digital Heating Heat Pump Thermostat STN721W Air Conditioner WiFi Thermostat ac with Alexa

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Air Conditioner Thermostats, Heat Pump Thermostat, Electric and Gas Thermostat, Non-Programmable Thermostat

STN721W is a WiFi heat pump thermostat with voice control through Alexa, supplied deliberately without a schedule. It handles heat pump staging and up to 2 heat and 1 cool on conventional equipment, keeps separate B and O terminals, and enforces heating and cooling setpoint limits so remote users cannot drive the plant outside its design range. Sensing runs 32 F to 99 F with a setpoint range of 44 F to 90 F.



Key benefits

- Voice control through Alexa without adding a schedule to maintain
- Setpoint limits cap what any user, local or remote, can select
- Separate B and O terminals suit both reversing valve conventions
- Universal sub-base mounts on a wall or a junction box

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| Model              | STN721W                                                                                                          |
| Programmability    | Non-programmable                                                                                                 |
| Power Supply       | 24 VAC                                                                                                           |
| Switchable Voltage | 24VAC (18~30VAC), 50/60 Hz for hardwire (common wire)                                                            |
| Temperature Range  | 32°F-99°F (1°C-40°C)                                                                                             |
| Setpoint Range     | 44°F-90°F (7°C-32°C)                                                                                             |
| Display accuracy   | ±1°C (at 20°C)                                                                                                   |
| Screen             | LCD                                                                                                              |
| Material           | ABS+PC                                                                                                           |
| Dimension          | 120 x98 x28 mm                                                                                                   |
| Application        | Villa, Hotel, Apartment, Office Building, Hospital, School, Mall, Sports Venues, Leisure Facilities, Supermarket |
| Type               | Air Conditioning/Heating/HVAC Systems/Heat Pump                                                                  |
| Feature            | Save Energy                                                                                                      |
| Certification      | FCC                                                                                                              |
| Warranty           | 1 Year                                                                                                           |
| After-sale Service | Online technical support, Return and Replacement                                                                 |

24V WIFI Programmable Digital Heating Alexa Thermostat STN705W Air Conditioner Smart Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Air Conditioner Thermostats, Electric and Gas Thermostat, Programmable Thermostat, Non-Programmable Thermostat

STN705W is the connected single stage member of the STN700 platform. It works with Alexa, runs 7 day, 5/1/1 or non-programmable schedules and controls up to 1 heat and 1 cool on conventional equipment. Because the mode is chosen in setup, the same connected stat serves a villa that wants a full schedule and a hotel room that wants none.

Key benefits

- Alexa voice control alongside app and keypad access
- Three schedule modes in one unit reduce the number of connected SKUs to stock
- Electric or gas configuration set on site rather than at the order stage
- White, blue or green backlight to match the room



|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| Model              | STN705W                                                                                                          |
| Programmability    | 7 Day,5/1/1 or Non-Programmable                                                                                  |
| Power Supply       | 24 VAC                                                                                                           |
| Switchable Voltage | 24VAC (18~30VAC), 50/60 Hz for hardwire (common wire)                                                            |
| Temperature Range  | 32■ to 99■ (1■ to 40■)                                                                                           |
| Setpoint Range     | 44■ to 90■ (7■ to 32■)                                                                                           |
| Display accuracy   | ±1°C (at 20°C)                                                                                                   |
| Screen             | LCD                                                                                                              |
| Material           | ABS+PC                                                                                                           |
| Dimension          | 120 x98 x28 mm                                                                                                   |
| Application        | Villa, Hotel, Apartment, Office Building, Hospital, School, Mall, Sports Venues, Leisure Facilities, Supermarket |
| Type               | Air Conditioning/Heating/HVAC Systems                                                                            |
| Feature            | Save Energy                                                                                                      |
| Certification      | FCC                                                                                                              |
| Warranty           | 1 Year                                                                                                           |
| After-sale Service | Online technical support, Return and Replacement                                                                 |

Heat Pump 2 Heat 1 Cool WIFI Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Heat Pump Thermostat, Electric and Gas Thermostat, Programmable Thermostat, Non-Programmable Thermostat

STN725W is the connected heat pump thermostat that joins both 2.4 GHz and 5.0 GHz networks, which matters on sites where the 2.4 GHz band is saturated or where guest networks run 5 GHz only. It works with Alexa, drives heat pump staging plus up to 2 heat and 2 cool conventional, and can be set to 7 day, 5/1/1 or non-programmable.

Key benefits

- Joins 2.4 GHz and 5.0 GHz networks, unlike most connected thermostats
- Works with Alexa for voice control alongside the app
- Heat pump staging plus up to 2 heat 2 cool conventional
- Three programme modes from one connected part number



|                    |                      |
|--------------------|----------------------|
| Programmability    | Programmable         |
| Power Source       | 24VAC                |
| Temperature Range  | 32■F-99■F (1°C-40°C) |
| Control Temp.Range | 44■F-90■F (7°C-32°C) |
| Temp.Meas.Accuracy | ±1°C (at 20°C)       |

|                  |                |
|------------------|----------------|
| <b>Dimension</b> | 120 x98 x28 mm |
|------------------|----------------|

## Multi Stage Heat Pump WIFI Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Heat Pump Thermostat, Electric and Gas Thermostat, Non-Programmable Thermostat

This is STN721W described as the multi stage heat pump WiFi model: dual band connection on 2.4 GHz and 5.0 GHz, Alexa voice control, and heat pump staging plus up to 2 heat and 1 cool conventional. It is deliberately non-programmable, so the operator manages temperature remotely rather than maintaining a schedule in every room.



### Key benefits

- Dual band WiFi on 2.4 GHz and 5.0 GHz
- Alexa voice control without a schedule to maintain
- Heat pump staging plus up to 2 heat and 1 cool conventional
- Measurement accuracy +/-1 C at 20 C over 32 F to 99 F

|                           |                      |
|---------------------------|----------------------|
| <b>Programmability</b>    | Non Programmable     |
| <b>Power Source</b>       | 24VAC                |
| <b>Temperature Range</b>  | 32■F-99■F (1°C-40°C) |
| <b>Control Temp.Range</b> | 44■F-90■F (7°C-32°C) |
| <b>Temp.Meas.Accuracy</b> | ±1°C (at 20°C)       |
| <b>Dimension</b>          | 120 x98 x28 mm       |

## Multi Stage Programmable WIFI Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Electric and Gas Thermostat, Programmable Thermostat, Non-Programmable Thermostat

STN715W is the multi stage conventional WiFi thermostat, handling up to 2 heat and 2 cool without heat pump staging. It joins 2.4 GHz and 5.0 GHz networks, works with Alexa, and can be set to 7 day, 5/1/1 or non-programmable. Room temperature calibration lets the installer correct a poor mounting position, which matters more on connected units because nobody sees the reading in person.



### Key benefits

- 2 heat and 2 cool conventional staging with app and voice control
- Dual band WiFi on 2.4 GHz and 5.0 GHz
- Room temperature calibration corrects remote readings
- Three programme modes from one connected part number

|                           |                      |
|---------------------------|----------------------|
| <b>Programmability</b>    | Programmable         |
| <b>Power Source</b>       | 24VAC                |
| <b>Temperature Range</b>  | 32■F-99■F (1°C-40°C) |
| <b>Control Temp.Range</b> | 44■F-90■F (7°C-32°C) |
| <b>Temp.Meas.Accuracy</b> | ±1°C (at 20°C)       |
| <b>Dimension</b>          | 120 x98 x28 mm       |

## WIFI Programmable Air Conditioner Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Electric and Gas Thermostat, Programmable Thermostat, Non-Programmable Thermostat

This is STN705W described as the WiFi programmable air conditioner thermostat in the STN700 connected range. It joins both 2.4 GHz and 5.0 GHz networks, works with Alexa, and controls up to 1 heat and 1 cool conventional. Programming is selectable between 7 day, 5/1/1 and non-programmable, with room temperature calibration for accurate remote readings.

Key benefits

- Dual band WiFi on 2.4 GHz and 5.0 GHz
- Alexa voice control alongside app and keypad
- Three programme modes from one connected part number
- Room temperature calibration for trustworthy remote readings



|                    |                      |
|--------------------|----------------------|
| Programmability    | Programmable         |
| Power Source       | 24VAC                |
| Temperature Range  | 32■F-99■F (1°C-40°C) |
| Control Temp.Range | 44■F-90■F (7°C-32°C) |
| Temp.Meas.Accuracy | ±1°C (at 20°C)       |
| Dimension          | 120 x98 x28 mm       |

WiFi Smart Simple Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Electric and Gas Thermostat, Non-Programmable Thermostat

STN701W is the simplest connected thermostat in the range: single stage, 1 heat and 1 cool, non-programmable, on a 2.4 GHz WiFi link with Alexa voice control. It keeps the separate B and O terminals and the electric or gas configuration from the wired STN701, so the installer wiring is unchanged. Sensing runs 32 F to 99 F with a control range of 44 F to 90 F.

Key benefits

- Simplest connected option in the range, with nothing to schedule
- Alexa voice control and app access on a 2.4 GHz network
- Separate B and O terminals despite the single stage build
- Room temperature calibration for accurate remote readings



|                    |                      |
|--------------------|----------------------|
| Programmability    | Non Programmable     |
| Power Source       | 24VAC                |
| Temperature Range  | 32■F-99■F (1°C-40°C) |
| Control Temp.Range | 44■F-90■F (7°C-32°C) |
| Temp.Meas.Accuracy | ±1°C (at 20°C)       |
| Dimension          | 120 x98 x28 mm       |

WiFi Smart Touchscreen Thermostat

WiFi Smart Thermostat, 24V WiFi Smart Thermostat, Heat Pump Thermostat, Electric and Gas Thermostat, Programmable Thermostat

STN855W is the connected touchscreen flagship: dual band WiFi on 2.4 GHz and 5.0 GHz, Alexa voice control, and universal staging up to 2 heat and 2 cool conventional or 3 heat and 2 cool heat pump. The schedule is editable rather than fixed, with programming segments that can be added or removed up to six, and the full set of operator controls including keypad lockout, setpoint limits and compressor delay.

Key benefits

- Programming segments can be added or removed, up to six, rather than a fixed pattern
- Dual band WiFi on 2.4 GHz and 5.0 GHz with Alexa voice control
- Widest staging in the range across conventional and heat pump plant
- Auto changeover plus keypad lockout and setpoint limits



|                    |                                               |
|--------------------|-----------------------------------------------|
| Programmability    | 7 Day, 5/1/1 Programmable or Non-programmable |
| Power Source       | 24V                                           |
| Temperature Range  | 32■F-99■F (1°C-40°C)                          |
| Control Temp.Range | 44■F-90■F (7°C-32°C)                          |
| Temp.Meas.Accuracy | ±1°C (at 20°C)                                |
| Dimension          | 120 x98 x28 mm                                |

WiFi Electronic Programmable Thermostat

WiFi Smart Thermostat, 230V WiFi Smart Thermostat, Gas Boiler Thermostat, Programmable Thermostat

ST2602WIFIRF is the dual protocol model: the room unit talks to the receiver over an 868.35 MHz RF link with a range of about 200 m in open terrain, and the receiver has a WiFi module built in for app control. That means the heating keeps working on the local RF link even when the internet drops, while iOS and Android apps still give remote access when the network is up.

Key benefits

- RF link and WiFi in one system, so local control survives an internet outage
- 868.35 MHz link with about 200 m range in open terrain
- iOS and Android apps for remote access
- 7 day, 5/2 day and 24 hour programmes with a factory pre-set schedule



|                       |                                         |
|-----------------------|-----------------------------------------|
| Programmability       | 7 Day, 5/2 Day and 24 hour Programmable |
| Power Supply          | 230VAC, 50HZ                            |
| Power Source          | DC 2 x AAA 1.5V                         |
| Switchable Voltage    | 24 V AC / DC,...250 V AC; 50Hz          |
| Switchable Current    | 6 A (2 A inductive load)                |
| Maximum Load          | 6(2)A, 230V                             |
| Temperature Range     | 0°C-40°C in 0.1°C                       |
| Control Temp.Range    | 5°C-35°C in 0.5°                        |
| Temp.Meas.Accuracy    | ±1°C (at 20°C)                          |
| Dimension             | 86 x 86 x 26 mm                         |
| Operating Frequency   | 868.35MHZ                               |
| Transmission Distance | approx. 200m in open terrain            |
| Consumption           | 6W                                      |
| Receiver              | WiFi module built-in                    |

## RF WiFi Programmable Thermostat Air Condition HVAC System

WiFi Smart Thermostat, 230V WiFi Smart Thermostat, Air Conditioner Thermostats, Programmable Thermostat

ST2402WIFIRF is the air conditioning and HVAC version of our dual protocol platform. The room unit links to the receiver on 868.35 MHz across about 200 m, and the receiver carries a built-in WiFi module for iOS and Android app control. It runs 7 day, 5/2 day and 24 hour programmes with a factory pre-set schedule and a keypad lockout, in a contemporary 120 x 77 x 28 mm room unit.



### Key benefits

- RF plus WiFi so local control is never dependent on the building network
- Slim 120 x 77 x 28 mm room unit with a contemporary front
- iOS and Android apps for remote access
- Three programme modes with a factory pre-set schedule

|                              |                                         |
|------------------------------|-----------------------------------------|
| <b>Programmability</b>       | 7 Day, 5/2 Day and 24 hour Programmable |
| <b>Power Supply</b>          | 230VAC, 50HZ                            |
| <b>Power Source</b>          | DC 2 x AAA 1.5V                         |
| <b>Switchable Voltage</b>    | 24 V AC / DC,...250 V AC; 50Hz          |
| <b>Switchable Current</b>    | 6 A (2 A inductive load)                |
| <b>Maximum Load</b>          | 6(2)A, 230V                             |
| <b>Temperature Range</b>     | 0°C-40°C in 0.1°C                       |
| <b>Control Temp.Range</b>    | 5°C-35°C in 0.5°                        |
| <b>Temp.Meas.Accuracy</b>    | ±1°C (at 20°C)                          |
| <b>Dimension</b>             | 86 x 86 x 26 mm                         |
| <b>Operating Frequency</b>   | 868.35MHZ                               |
| <b>Transmission Distance</b> | approx. 200m in open terrain            |
| <b>Consumption</b>           | 6W                                      |
| <b>Receiver</b>              | WiFi module built-in                    |

## High Sales Volume Auto WIFI Control Underfloor Heating Programmable Home Thermostat

WiFi Smart Thermostat, 230V WiFi Smart Thermostat, Underfloor Heating Thermostat, Programmable Thermostat

E3RF-H is the connected version of the E3 platform, built for underfloor heating system temperature control. It is universal WiFi with a 7 day programme and an AUTO/MANUAL switch, and keeps the two details that make the E3 range practical for export: universal back plate holes that suit mounting standards in different countries, and an integrated pulley in the dial mechanism.



### Key benefits

- Universal back plate holes suit back box standards in different countries
- Integrated pulley gives a smooth, consistent dial action
- AUTO/MANUAL switch overrides without losing the programme
- 7 day programme with simple, clearly labelled buttons

|                         |                    |
|-------------------------|--------------------|
| <b>Model</b>            | E3                 |
| <b>Backlight</b>        | White              |
| <b>Material</b>         | Anti-flammable PC+ |
| <b>Weight</b>           | 400g               |
| <b>Package Included</b> | 1WIFI Thermostat 1 |

