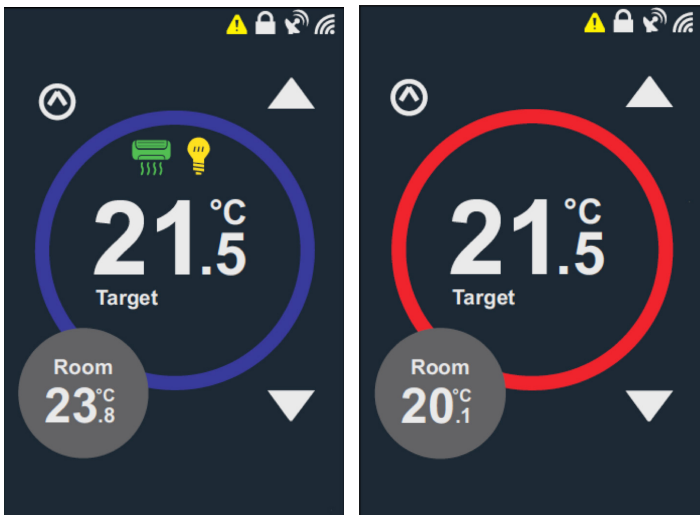


## Touchscreen Thermostat

### SH-TSX



These SH-TSX smart thermostats can be used for various zone or underfloor heating, cooling and fan control applications. With their attractive 3.5" backlit touchscreen, they do not only have a slim and nice looking design, they can also be flush mounted easily. The MOD models have built-in Modbus RTU communications and the BAC models provide BACnet MS/TP communications. The thermostats can also be configured to be used as a lighting and/or air conditioning interface for system network devices. Besides all this, they can be connected to the EasyIO FW controllers to create a price effective and partly wireless room application.



#### Technical Specification:

Power supply	Models -24: 24VAC/DC -10%/+15%
Touchscreen	3.5" Backlit Touchscreen, 320 x 480 pixels, 255k colours
Relay Output	1 x 7A 230Vac Relay, SPST
Built-In Sensor	0..50°C (32..122°F) ±0.5°C @ 25°C
External Sensor Inputs	2 x External NTC10K3 Sensor
Digital Input	1 x Digital Input, Volt-Free Contact, Impedance <1KOhm
Operating Temperature	0°C...+50°C (32..122°F)
Storage Temperature	-30°C...+70°C (-22..158°F)
Operating Humidity	0..95%rh (non-cond.)
Storage Humidity	0..95%rh (non-cond.)
Housing Material	Polycarbonate Plastics, Self Extinguishing (V0 rated), Silver and Black
Mounting	Wall or Junction Box Mounting
Dimensions	W88 x H112 x D43 mm; Flush: W88 x H112 x D14.5mm
Weight	220g
Protection	IP20

#### Humidity (RH Models):

Range	0..100%rH
Accuracy	±2% rH (within 20..80% rh)

#### Modbus (MOD models):

Protocol	Modbus RTU
Interface	RS485; maximum 63 devices
Addressing	1..247 via Touchscreen
Communication	9k6 / 19k2 / 38k4 / 57k6 / 76k8 Baud; Parity None/Even/Odd, 1 or 2 Stop Bits (adjustable through Touchscreen)

#### BACnet (BAC models):

Protocol	BACnet MS/TP
Interface	RS485; maximum 63 devices
Addressing	0..127 via Touchscreen
Device ID	Default 651000 + MAC Address, Adjustable
Communication	9k6 / 19k2 / 38k4 / 57k6 / 76k8 Baud; Parity None/Even/Odd, 1 or 2 Stop Bits (adjustable through Touchscreen)

## Touchscreen Thermostat

### SH-TSX



#### Features:

- 24VAC/DC Power Supply
- 3.5" Inch Backlit Touchscreen Display
- BACnet and Modbus Communication Models
- Fan Speed control and display
- Operating mode control and display (heat / cool / auto / fan)
- Flush Mounting in the UK or EURO Wall Mounting Box
- Attractive Modern Designer Look
- Built-In Temperature Sensor
- Two Remote NTC10 Sensor inputs
- 250V 7A Switched Network Relay
- Digital Input for Overrides / Measurement
- 2% rH Relative Humidity Option

#### Order References:

- SH-TSX-MOD-24 Modbus 3.5" Touchscreen Thermostat, Non-Programmable, 24Vac/dc Power Supply
- SH-TSX-BAC-24 BACnet MS/TP 3.5" Touchscreen Thermostat, Non-Programmable, 24Vac/dc Power Supply
- RH Relative Humidity Option, 2%rH Accurate

#### 24V Model Wiring:

