

STR100 - STR106

Room Sensors



Product Description

The STR is a series of wall modules optimized for public facilities such as office buildings, hotels, hospitals, schools and shopping malls. Their pleasant appearance and well-designed interface make them suitable for any contemporary building.

Easy to operate and install, the STR101-STR106 wall modules are equipped with a modular jack (RJ-10) that allows them to be connected to the portable TAC Xenta OP (Operator Panel). The STR101-STR106 can be used together with the TAC Xenta 100, 200, 300 and 400 series of controllers.

The wall modules are equipped differently; the STR100 is the basic model, while the STR106 is fully equipped. The STR wall modules replace the ZS 100 Series and the EGRL room sensor.

Features

- Contemporary design with simple interface
- Modular plug-in concept for easy installation
- Direct surface mount or electrical back-box
- Variety of models to fit many applications
- Bypass button with mode indicator
- Adjustable setpoint offset wheel
- Compatible with Xenta OP tool

Available Products

Part Number	Model	Temp. Sensor	Mode Indicator	Setpoint Offset Wheel	Bypass Button	Fan Speed Control ¹
004600100	STR100	X				
004600110	STR100-W	X				
004600300	STR102	X	X	X		
004600400	STR104	X	X	X	X	
004600500	STR106	X	X	X	X	X ³
004600800	STR106-B	X	X	X	X ²	X ³

1. In the TAC Xenta 100 series, this is only applicable for the TAC Xenta 101-VF and TAC Xenta 121-FC.

2. STR106-B has no icon on the Bypass button.

3. Uses a 5-position control wheel: A-0-I-II-III.

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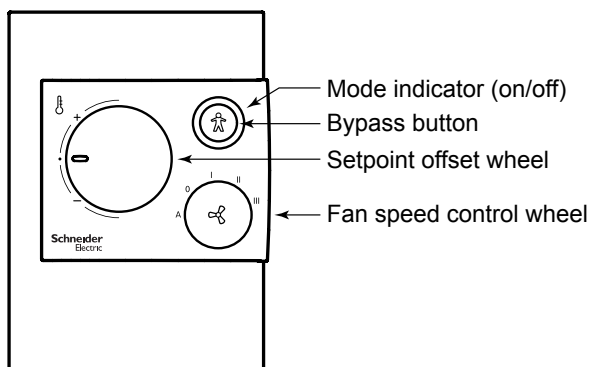
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Specifications

Ambient Conditions	
Storage temperature	-20 ... +70 °C (-4 ... +158 °F)
Operation temperature	±0 ... +50 °C (+32 ... +122 °F)
Humidity	Max. 90% non-condensing relative humidity
Mechanical	
Enclosure material	ABS/PC
Enclosure rating	IP 20/NEMA 1
Weight	85 g (0.19 lb.)
Sensor Data	
Type	1.8 kΩ thermistor
Accuracy	At 15 ... 30 °C (59 ... 86 °F) ±0.35 °C (0.63 °F)
Regulatory Information	
Emission: CE	EN 61000-6-3
Immunity: CE	EN 61000-6-1
Safety: CE	EN 61010-1
Safety: UL	cULus, UL 916 Listed
Flammability: UL	UL 94 V-0

Functions

The diagram below shows the STR106 model.



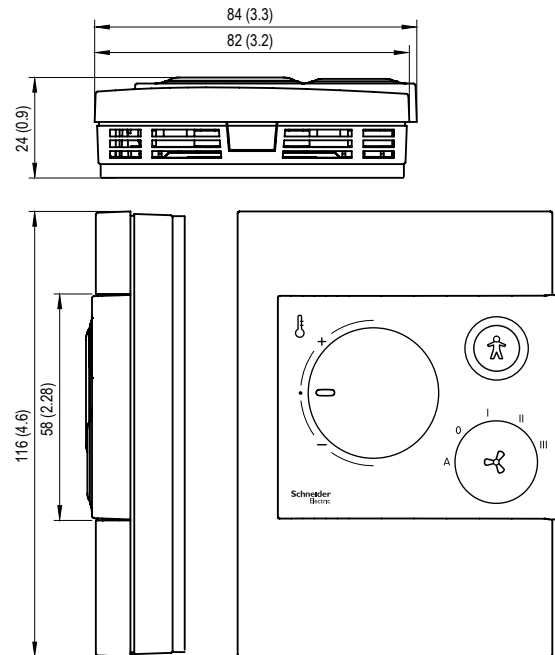
A green LED indicates the mode as follows:

- Solid green LED: Comfort mode (On)
- Flashing green LED: Economy mode (Standby)
- LED off: Unoccupied mode

Bypass Button

A bypass button is provided on models STR104, STR106 and STR106-B to change from Economy (standby) or Unoccupied mode to Comfort mode. When entering Comfort mode, the mode indicator LED shows a solid green light. When the bypass time expires, the LED returns to its previous status again, provided that the Feedback mode is connected. Otherwise the LED returns to the Off status after two hours.

Dimensions mm (in.)



Setpoint Offset Wheel

A setpoint offset wheel is provided on models STR102, STR104 and STR106 for adjusting the temperature setpoint offset.

The adjustment range may be set to the following limits:

- ±1 °C (±1.8 °F)
- ±2 °C (±3.6 °F)
- ±3 °C (±5.4 °F)
- ±4 °C (±7.2 °F)
- ±5 °C (±9.0 °F)

The adjustment is done manually using the plastic keys on the back of the core panel. Increase/decrease limits are separately adjustable.

Wiring

These units use 2-10 wires for installation. The wiring is easily accessible due to the plug-in concept.

Cables

Twisted pair, unshielded, with a min. cross-sectional area of 0.7 mm² (AWG-19) and a max. length of 30 m (100 ft).

Mounting

The units can be mounted directly onto the wall or fitted onto a wide variety of back-boxes. The plug-in concept makes wiring quick and easy.

Maintenance

No maintenance is required for the wall module. If necessary, it may be cleaned with a soft cloth.