STR100 – STR107

Wall Modules

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 inter-face make them suitable for any contemporary building. They are easy to operate and install.

The STR101 through STR107 are equipped with a modular jack (RJ-10) that allows the wall module to be connected to the portable TAC Xenta OP (Operator Panel). The STR101 through STR107 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 and STR107 are fully equipped. The STR wall modules replace the ZS 100 series and the EGRL room sensor.

SPECIFICATIONS

Ambient Conditions

Storage temperature. . . . . –20 °C to +70 °C
(–4 °F to +158 °F)
Operation temperature . . . . ±0 °C to +50 °C
(+32 °F to +122 °F)
Humidity. . . . . max. 90%
non-condensing relative humidity

Mechanical

Enclosure material . . . . ABS/PC
Enclosure rating . . . . IP 20/NEMA 1
Dimensions. . . . . see Fig. 1
Weight . . . . .85 g (0.19 lb.)

Agency Compliances

Emission

CE . . . . EN 61000-6-3

Immunity

CE . . . . EN 61000-6-1

Safety

CE . . . . EN 61010-1
UL . . . . C-UL, UL 916 Listed

Flammability

UL . . . . UL 94 V-0

Energy (STR106-3 only)

eu.bac, certificate no. 020711 . . . . EN 15500

Sensor Data

Type . . . . 1.8 kW thermistor
Accuracy . . . . at 15–30 °C (59–86 °F),
±0.35 °C (0.63 °F)

DIMENSIONS mm (in)

84 (3.3)
82 (3.2)
24 (0.9)
116 (4.6)
58 (2.28)

Fig 1

Schneider Electric
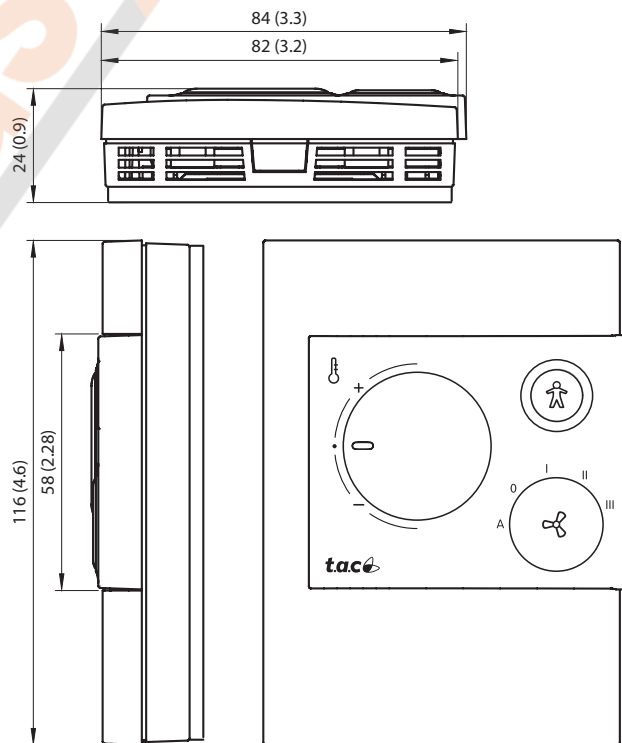
Part Numbers

STR100 004600100
STR100-W (White) 004600110
STR101 004600200
STR102 004600300
STR103 004600700
STR104 004600400
STR106 004600500
STR106-B 004600800
STR106-3. 004600900
STR107 004600600

FUNCTIONS

Fig. 2 shows an STR107. The STR100–STR106 may have less functionality.

Mode Indicator

A green LED is used on the STR101–STR107 to indicate the mode in accordance with the following:

- Comfort mode (On) is indicated by a steady green light.
- Economy mode (Standby) is indicated by a flashing green light.
- Unoccupied mode is indicated by the LED being off.

Bypass Button

A bypass button is provided on models STR103–STR107 to change from standby (economy) or unoccupied mode to comfort mode. When entering comfort mode, the symbol on the display shows a steady light. When the bypass time expires, the symbol returns to its previous status again, provided that the feedback mode is connected. Otherwise the symbol returns to the Off status after two hours.

Setpoint Offset Wheel

A setpoint offset wheel is provided on models STR103, STR104, STR106 and STR107 for adjusting the temperature setpoint offset.

The adjustment range may be set to the following limits (not applicable to STR106-3):

- ±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.

Model	Temp. Sensor	Mode Indicator	Setpoint Offset Wheel	Bypass Button	Fan Speed Control[1]
STR100	X	–	–	–	–
STR101	X	X	–	–	–
STR102	X	X	X	–	–
STR103	X	X	–	X	–
STR104	X	X	X	X	–
STR106 STR106-B STR106-3	X	X	X[2]	X[3]	X[4]
STR107	X	X	X	X	X[5]

1. In the TAC Xenta 100 series, this is only applicable for the TAC Xenta 101-VF and TAC Xenta 121-FC.
2. STR106-3 with a fixed range: 13 °C (centigrades only).
3. STR106-B has no icon on the Bypass button.
4. All three models use a 5-positions control wheel: A-0-I-II-III.
5. STR107 uses a 3-positions control wheel: Auto-Off-On.

Wiring

The STR100–STR107 uses 2–10 wires for installation. The wiring is easily accessible thanks to the plug-in concept.

Cables

Twisted pair, unshielded. Min. cross-sectional area: 0.7 mm² (AWG-19). Max. distance: 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.
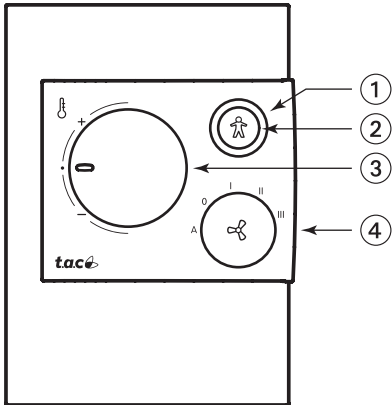
Maintenance

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

STR106-3

STR106-3, connected to the controller TAC Xenta 121-FC/230, forms a system which is certified according to the eu.bac regulation EN 15500.

For more information, see www.eubaccert.eu

STR106

1. Mode indicator, On/Off.
2. Bypass button.
3. Setpoint offset wheel.
4. Fan speed control wheel.

Fig 2