Executive Enclosure Space Temperature

Model TE - 205 -EX

- **Attractive, off-white finish, made from rugged ABS plastic.**
- **Three options available**
  - **Sensor only**
  - **Sensor with under-cover RJ11 communication jack**
  - **Sensor, push-button override, sliding set-point adjust, and RJ11 communication jack**
- **Custom set point adjust, push-button override, communication jack available, most available in three weeks or less.**
- **Mounts on standard 2" X 4" junction box.**
- **Rugged two-piece construction, cover secured to sub base via Allen screws.**
- **Select from 12 types of thermistors, platinum, nickel, or Balco RTDs.**

TE-205-EX wall sensors provide reliable space temperature sensing. The rugged enclosure is tamper proof, due to a unique mounting scheme and Allen screws that secure the cover to the sensor sub base. Select from 12 types of thermistors, platinum, nickel, or Balco RTDs. Customization of set-point adjust, push-button override, communication jack is possible, many available in three weeks for less. All TE-205-EX wall sensors can be mounted in sheet rock and are designed to mount on standard 2"X4" junction box. By depressing the momentary push-button located along the upper right side of the sensor, after hours comfort control conditions can be requested by facility occupants. Two types of after hours temperature override are provided. Refer to individual manufacturer's override schemes. Simple, intuitive temperature control adjustment "slider" provided for occupant temperature modification.

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ORDERING INFORMATION—TE-205-EX-SENSOR- OPTIONS

ORDER CODE	SENSOR*
1	100-Ohm platinum RTD
3	1,000-Ohm platinum RTD
4	1,000-Ohm nickel RTD
5	1,000-Ohm Balco RTD
7	10,000-Ohm NTC thermistor
10	3,000-Ohm NTC thermistor
12	10,000-Ohm NTC thermistor
13	3,000-Ohm NTC thermistor
15	100,000-Ohm NTC thermistor
17	20,000-Ohm NTC thermistor
18	2,252-Ohm NTC thermistor
21	1,800-Ohm NTC thermistor

ORDER CODE	OPTION
0	Sensor Only
1	Sensor, Push-button override
2	Sensor, Push-button, Set-point adjust
3	Sensor, Push-button, Set-point adjust, and Communication jack
4	Sensor, Set-point adjust
5	Push-button, Communication jack

PLEASE check availability with MAMAC Systems for all models.

ORDERING THIS PART: *After TE-205-EX, select sensor order code and option order code. For example, A TE-205-EX-**3**-**0** is a sensor with 1,000 Ohm platinum RTD and No Option.*

***NEED RESISTANCE VERSUS TEMPERATURE TABLES?:** Please refer to publication TI.700.10.*

SPECIFICATIONS:

Platinum RTD sensors: ± 0.1% @ 32.0º F (0.0º C), Alpha: 385 per DIN 43760
Nickel RTD sensors: ± 0.5º F @ 70.0º F (21.1º C), 6,000 PPM/K T.C.R.
Balco RTD sensors: ± 0.5º F @ 70.0º F (21.1º C), 4,300 PPM/K T.C.R.
Thermistor sensors: ± 0.4º F (0.2º C) inaterchangeability @ 77.0º F (25.0º C)
Operating and Storage Temperatures: 32.0º F to 158.0º F (0.0º C to 70.0º C)
Finish: Tan color, ABS plastic

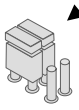
INSTALLATION INSTRUCTIONS:

Inspection - Inspect the package and device for obvious signs of damage. If damaged, please notify your shipper or individuals in your organization responsible for shipping products.

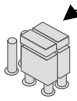
To Get Started - Tools are not provided. You will need drill, drill bits, or screwdriver and screws to mount this device. If you mount this device in sheet rock, you should have appropriate #8 screws and plastic wall anchors. If you mount this device to a standard 2"x4" junction box, you will need two (2) #8 self tapping screws to mount the sub base.

Set the Jumpers - Turn Allen screws CW on the bottom of the unit. Remove the cover. Refer to Figure 1 on the top of page three and make the appropriate jumper setting (TE-205-EX-X-1,-2,-3,-5 only).

NOTE: *Before setting TE205 jumpers, please refer to control system manufacturer for bypass operation requirements.*



Jumpers shown in this position (**A**) will cause the sensor circuit to be shorted when the bypass button depressed, resulting in bypass command to system controller.



Jumpers shown in this position (**B**) permit use of a second bypass circuit to be wired to a digital input on the system controller from TE205. When the bypass button is depressed, bypass occurs.

Figure 1
Set jumper to select bypass mode

Mount the Subbase - Mount device approximately five (5) feet above floor level. Pull wires through junction box or through hole in sheet rock through hole in the back of the sub base. Mount the sub base on the sheet rock or junction box, observing directions above. Screw down the sub base.

Terminations - *Sensor, Bypass, Set point Adjust.* Wire per wiring diagrams (Figure 2-4) below. Use no larger than 12 AWG wiring. Terminate, complying to wiring rules by supplier of controller products.

INSTALLATION INSTRUCTIONS:

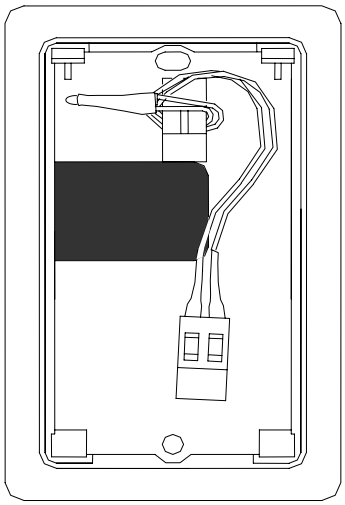


Figure 2
TE-205-EX-X-0

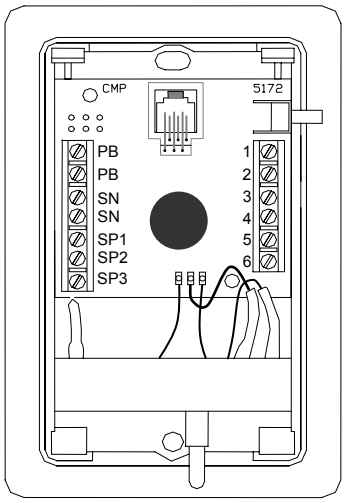
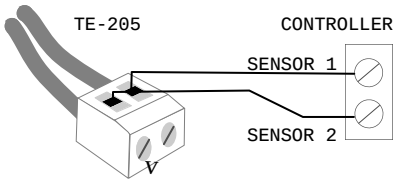


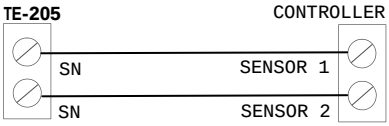
Figure 3
TE-205-EX-X-3

SENSOR WIRING, -0*



- Sensor is polarity insensitive.
- Connect *SENSOR* and *AI COM (OR) GND* to terminals on flying leads on TE205.
- Tighten wire leads into connector via screws.

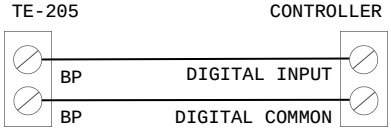
SENSOR WIRING, -1* TO -6*



- Sensor is polarity insensitive. Observe unique wiring requirements on the part of the controller manufacturer.

- **Please Note:** *If jumpers are mounted in position **A** (see Figure 1), when bypass button on TE205 is depressed, sensor is shorted.*

BYPASS WIRING, -1*,-2*,-3*,-5*

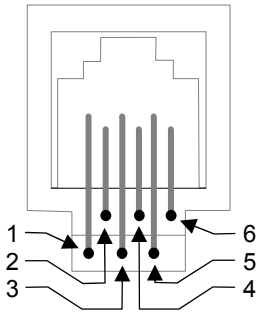


- Observe unique wiring requirements on the part of the controller manufacturer.

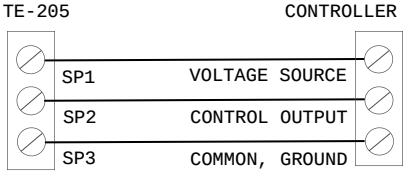
- **Please Note:** *Jumpers must be mounted in position **B** (see Figure 1). When bypass button on TE205 is depressed, controller should be configured to initiate bypass, or some other action.*

COMMUNICATIONS JACK, -3*,-5*,-6*

- RJ11 jack is located under the cover of TE-205.
- Pin-out from controller to TE205 must be known and observed.

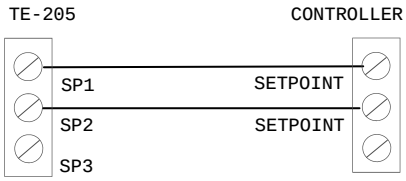


SETPOINT WIRING, -2*, -3*, -4*



- Observe unique wiring requirements on the part of the controller manufacturer.

SETPOINT WIRING, -2*, -3*, -4*



- Observe unique wiring requirements on the part of the controller manufacturer.
- Read 0—10,000 Ohms between SP1 and SP2 on TE-205, adjusting from "far left" to "far right" set-point position.

*MODEL NUMBER TABLE

-1*	TE-205-EX-X-1
-2*	TE-205-EX-X-2
-3*	TE-205-EX-X-3
-4*	TE-205-EX-X-4
-5*	TE-205-EX-X-5
-6*	TE-205-EX-X-6

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