

Wall Mount Temperature Transmitter with Thermostat Functions

TWS Series



TWS

SPECIFICATIONS



Input Power	15-30VDC/24VAC, 100mA max.
Outputs, Analog	Switch-selectable 4-20mA (clipped and capped)/0-10V/0-5VDC (switch affects all outputs)
Outputs, Relay (Relay models only)	2 Form C (SPDT), 1A 30VDC, resistive, 30W max.
Physical	UL 94V-0 fire retardant ABS
TEMPERATURE	
Accuracy	±0.5°C (±1°F)
Scaling	10° to 35°C (50° to 95°F) or 0° to 50°C (32° to 122°F), menu selectable
Calibration Offset	Adjustable ±10° in 0.1° (C or F) increments
Setpoint Range	Minimum to Full Scale in 1° (C or F) increments
Hysteresis (Deadband)	1° to 10°F in 1°F increments

Independent RH, Temp, and Analog Setpoint Outputs

FEATURES

- Independent heat/cool (TWS relay) or analog setpoint outputs (TWS analog) provide application flexibility
- LCD for local display of readings and setup values...easy visibility under any lighting conditions
- Offset function adjusts calibration offsets for temperature
- Switch selectable 4-20mA or 0-5/0-10VDC analog outputs
- Semiconductor temperature sensor can be field calibrated

APPLICATIONS

- Hospitals and operating rooms, pharmaceutical labs
- Clean rooms
- Food processing plants
- Environmental testing facilities, & other institutional applications

DESCRIPTION

All **TWS Series** institutional grade temperature transmitters are field-programmable & are designed to satisfy the demanding requirements of pharmaceutical labs, hospitals, science labs, and other exacting applications. Internal jumpers control access to a feature which allows field adjustment of calibration offsets. Tampering can be discouraged by setting a jumper to disable keypad program functions.

Analog Output

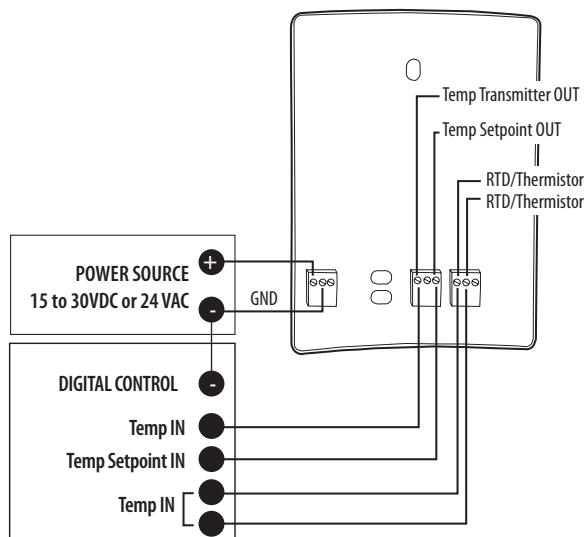
Analog output models feature a keypad to make adjusting temperature setpoint values easy. They are unique in reporting the setpoint values back to a control system by means of 4-20mA or 0-5/0-10VDC (output selected by slide-switch) signals.

Setpoint Relay

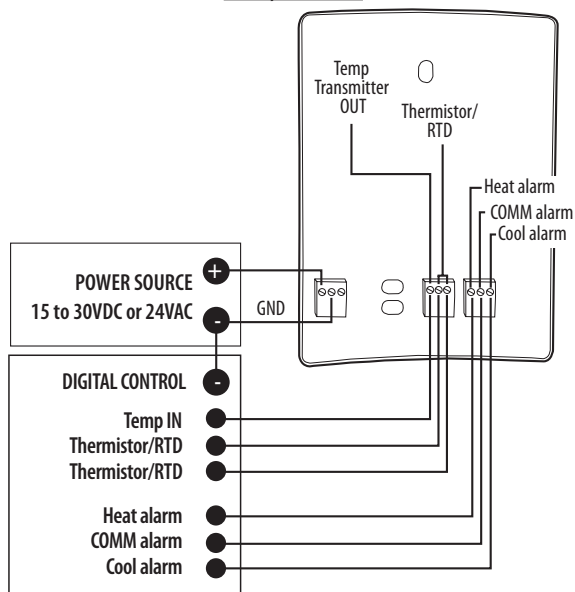
The TWS Series setpoint relay models measure temperature and offer thermostat functionality. Two separate relays can be configured to control heat/cool in thermostat mode.

WIRING EXAMPLES

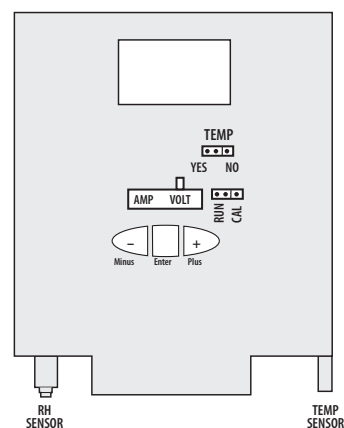
Analog Models



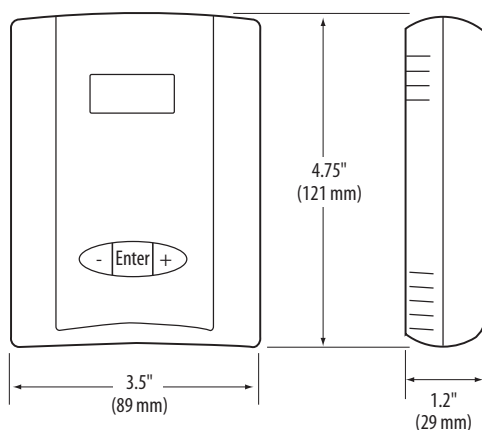
Relay Models



CONFIGURATION



DIMENSIONAL DRAWING



ORDERING INFORMATION



Setpoint	Cal Certificate	Option
TWS	S	
A = Analog R = Relay	= CE (standard)	Blank = None
	0 = None 1 = 1 point Cal Validation 2 = 2 point Cal Validation	B = 100R Platinum, RTD C = 1k Platinum, RTD D = 10k T2, Thermistor E = 2.2k, Thermistor F = 3k, Thermistor G = 10k CPC, Thermistor H = 10k T3, Thermistor J = 10k Dale, Thermistor K = 10k w/11k shunt, Thermistor M = 20k NTC, Thermistor N = 1800 ohm TAC, Thermistor Q = 1uA/C, Linitemp R = 10k US, Thermistor S = 10k 3A 221, Thermistor T = 100k, Thermistor U = 20k "D", Thermistor W = 10k T2 high accuracy, Thermistor Y = 10k T3 high accuracy, Thermistor Z = 10k E1, Thermistor

Example:

TWS A S 1 C

TWS models include standard temperature transmitter outputs. Optional RTDs and thermistors are available as shown for TWSA models.

ACCESSORIES

Replacement cover (AA53)
Replacement housing (AA55)



AA53



AA55