

Humidity & Temperature Controllers

Series 5000



Model 5200-441431, our premier unit

The Electro-Tech Systems Series 5000 Controllers are easy to use, precision PID controllers that provide stable, accurate control of humidity and temperature in controlled environments.

Controllers have AC outlets for direct control of AC operated RH and Temp operating systems. Large LEDs indicate conditions and status. Achieving accurate set point control is as simple as plugging in the relevant operating systems, flipping the power switch, and tapping in the desired values.

Real time charting, logging, controller configuration, and alarming are available with the optional software package. Controllers can be configured to drive single or dual processes. In addition, Series 5000 controllers can control any linear process.

Applications

- Heating
- Cooling
- Humidifying
- Dehumidifying
- Ramping/Soaking
- Variable monitoring (e.g. O2 monitoring)
- Control other processes

Key Features

- Easy installation and set-up
- Temperature Accuracy: $\pm 0.9^{\circ}\text{F}$ (0.5°C)
- Humidity Accuracy: $\pm 2\%$ RH
- NEMA outlets located on rear for plug-and-go system integration
- Control any linear process
- Compatible ETS operating systems integrate with controllers to maintain a stable environment
- Applications software for logging and recording of data, system control and alarming (Optional)

[Electro-Tech Systems environmental controllers integrate best with compatible ETS chambers and control solutions.](#)
[For more information on a complete system please contact ETS.](#)

D00715B



Specifications

Control Function:

Sensor type:

Humidity: Temp compensated, capacitive film
Temperature: RTD

Sensor Input:

Voltage: 0-5V (max)
Accuracy: $\pm 0.1\%$
Resolution: ± 0.1 of digital readout
Sampling frequency: 10Hz, CJC-2 sec

Display:

Reading: 0.4" (10mm) Numeric Green LED
Set Point: 0.35" (9mm) Numeric Orange LED
SP1: Flashing square point Green LED; SP2: Flashing round Red LED; SP3 (Alarm): Flashing Red LED

Controls:

Module: Function UP/DOWN buttons
Front Panel: INCR-ON/OFF, DECR-ON/OFF per control module

Output Range: - Standard Probe – 20 to 60C

Humidity: 0-100%
Temp: -40°C to 80°C range available with custom probe

Electrical

Power In:

90-240 VAC, 50/60Hz, 1,000VA (Volt-Amp) max

Power Out:

Standard: 4A
Heater: 8A
Solenoids: 2A

Communications

Comm Port (9-pin sub D):
For Single unit link, RS-232
For Multiple unit link, RS-485
Appropriate cable(s) provided for specific configuration ordered
Electromagnetic compatibility: EN61326-1 EN61326-2-3

Mechanical

Dimensions:

7.25"W x 9.0"D x 2.5"H (185 x 229 x 70 mm)

Weight:

3.5lb (7.7kg)

Warranty: One (1) Year Parts & Labor

To ensure consistent and valid results annual calibration is required

Contact: service@ets2.com for assistance



Specifications subject to change without notice

