

# Humidity & Temperature Controllers

## Series 5000



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. O<sub>2</sub> monitoring)
- Control other processes

### Key Features

- Easy installation and set-up
- Temperature Accuracy:  $\pm 0.9^{\circ}\text{F}$  ( $0.5^{\circ}\text{C}$ )
- 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.](#)

D00715 Rev C



### Specifications

**Control Function:**

**Sensor type:**

Humidity: Temp compensated, capacitive film

Temperature: RTD

**Sensor Input:**

Voltage: 0-5V (max)

Accuracy:  $\pm 0.1\%$

Resolution:  $\pm 0.1$  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](mailto:service@ets2.com) for assistance**



*Specifications subject to change without notice*

