

5400 Color Controller

RECOGNIZED
COMPONENT



Intertek
3080852

The Artisan Controls Model 5400 controller provides a modern graphical user interface via its 3.5" diagonal color display and includes two inputs for temperature probes, two switch inputs, two relay contact outputs, and two DC outputs for driving solid state relays, thereby providing an excellent platform for heating, cooking, or equipment control for virtually any application.

- Robust Design: Designed *specifically* for the commercial kitchen environment.
- User Interface – 3.5" diagonal color LCD display with simple touchscreen operation and intuitive window designs, 320 x 240 pixels with 64k colors.
- Cooking Recipes – 15 nameable recipes with preheat, cooking, and hold cycles. Up to 3 different cooking profiles per recipe. Extra cooking time available in all cooking and hold cycles.
- Dimensions – 4-1/2" wide, 4-1/8" tall, 1-1/2" deep maximum.
- Analog Inputs – Two inputs configurable for 100 ohm RTD, J or K thermocouple. Other inputs such as 4-20mA, 0-10V, etc. are available.
- Digital Inputs – Two low voltage contact inputs.
- Outputs – Two 10A relay outputs and two 5V DC outputs for solid state relays
- Control – On/Off control with selectable hysteresis or PID control with sophisticated Auto Tune.
- Security – Supervisor, Technician, and Factory access levels.
- Import/Export – Integrated USB port for saving or reading recipes and controller configurations providing consistent factory setup and field service. No 2Gb limitation.
- Controller History – Tracks operational hours and cooking hours to 0.1 hour resolution. Stores up to 128 system events for service history.
- MADE IN USA – Designed and manufactured exclusively in the USA.

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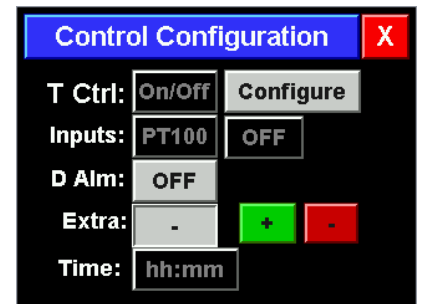
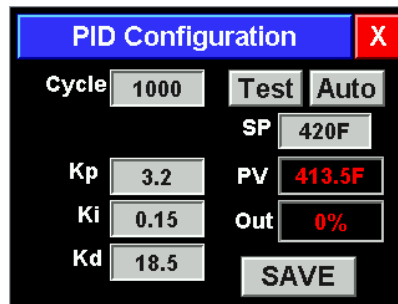
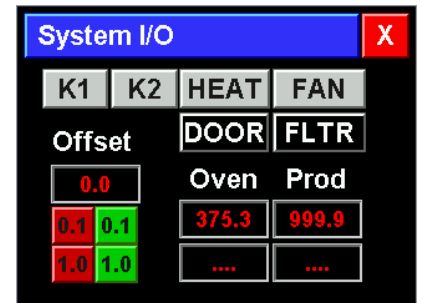
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The 5400 controller provides all the input, output, and control methods needed to manage any cooking application. The OEM can configure the input sensor types, the type of control method used (on/off or PID), and the outputs used for controlling the cooking temperature. All of the 15 recipes have configurable alphanumeric names to assure proper recipe selection by the operator.

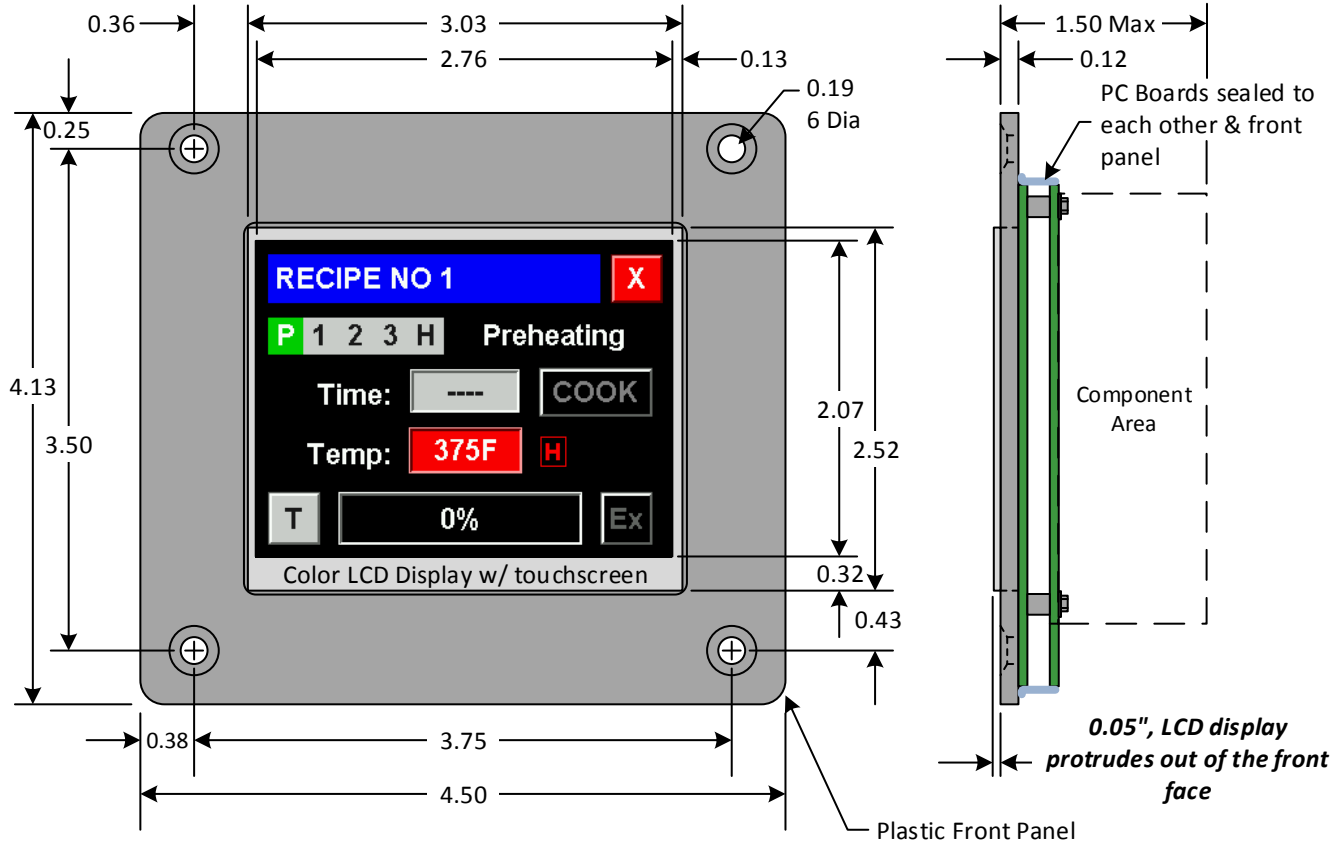
When testing the appliance in manufacturing or servicing it in the field, the 5400 allows the proper password to access windows that show the states of all the inputs and outputs and to manually drive the outputs, the controller history including all configuration changes, sensor input alarms, total running hours and the total cooking hours.

The unique flexibility of this controller extends to customization of the user interface and operation by Artisan for the OEM's application needs. Artisan can modify the firmware to allow the OEM to choose the color schemes, display the company logo, lock some or all of the configuration to prevent errors in factory and field installation, and to use the two switch inputs for additional functions such as door and filter guard alarms.

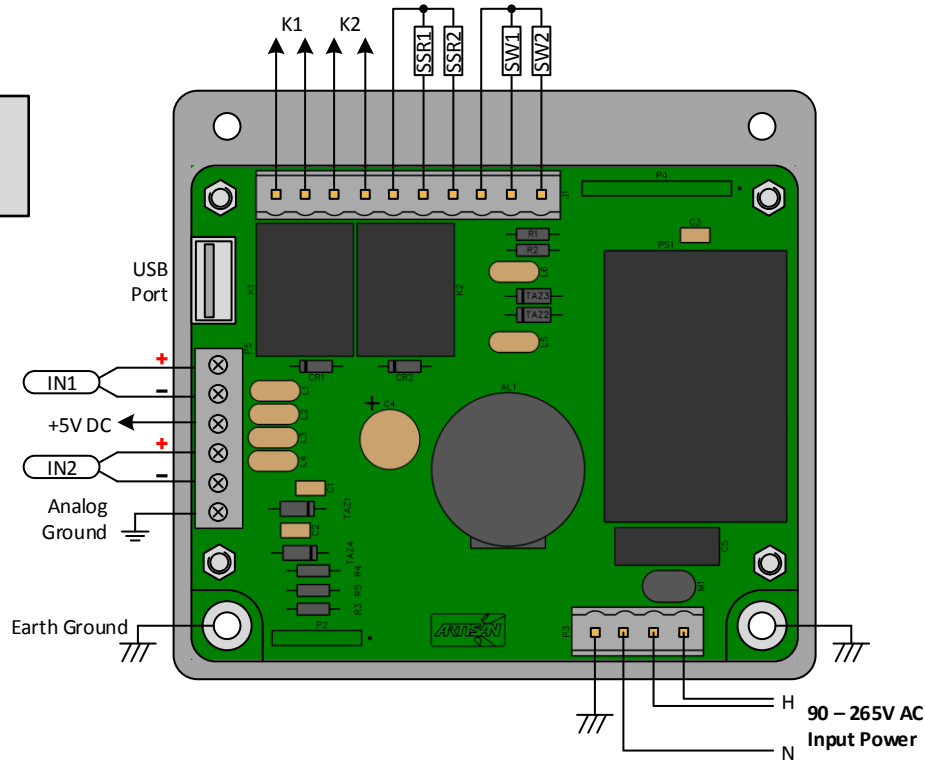


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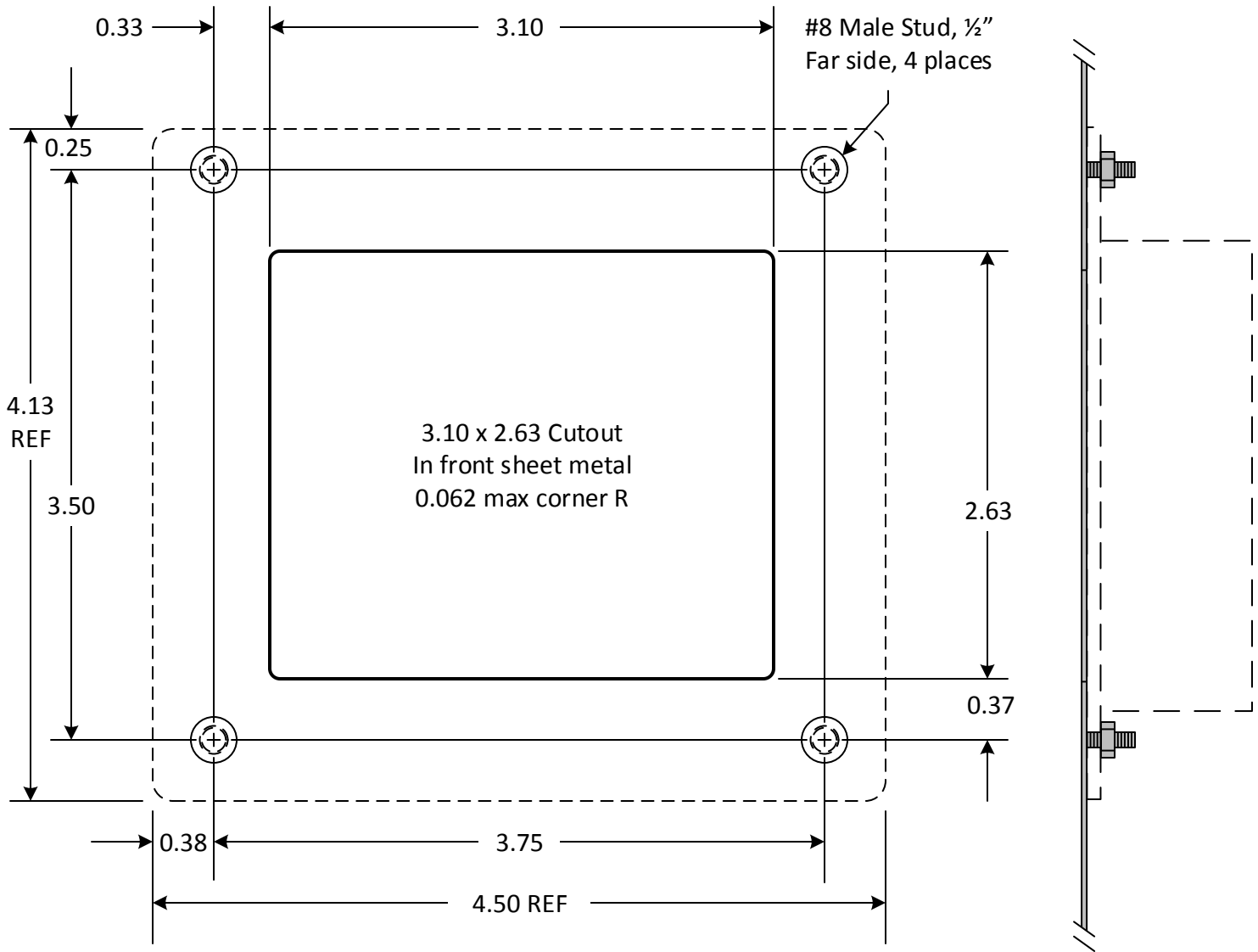


Dimensions and Wiring



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**Recommended
Mounting**

When designing the mounting method with a protective overlay there should be a 0.010" – 0.015" gap between the back of the overlay and the front surface of the display. Dielectric dots on the back of the overlay are recommended to prevent adhering of the back of the overlay to the LCD display

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SPECIFICATIONS:

DISPLAY: Color 3.5" diagonal LCD display, 320 x 240 pixels, 16 bit color, resistive touchscreen for user interface. 60Hz display refresh rate.

PROCESSING: 32 bit processor running at 80MHz. 16 bit sensor measurement resolution with programmable gain to handle wide ranges of input voltages. Floating point conversion of input signals using ITS-90 conversion formulas. Analog resolution of less than 0.1°F, cold junction resolution 0.25°F, measurement accuracy better than 3°F.

OUTPUTS: K1 & K2 - SPNO relay contacts rated 10A @ 125VAC, 7A @ 250VAC. SSR1 & SSR2 - 5VDC @ 50mA maximum².

INPUTS: SW1 & SW2 - Low voltage dry contact inputs, <5mA @ 5VDC.

IN1 & IN2 - Universal analog inputs. Software configurable for 100 Ohm RTD (385 curve), J or K thermocouple, other analog inputs (ie: 4-20mA, 0-10V) available. +5V DC for sensor power limited to 50mA maximum².

FUNCTIONALITY: Up to 15 menu selections, multiple cook cycles, thermostatic or PID control, custom windows and control schemes.

USB PORT: Flash drive interface for importing & exporting cooking recipes and controller configuration. Any drive size up to 16Gb.

CONNECTIONS:

Power - Wago 231-134/001-000

Input/Output - Wago 231-140/001-000

Analog Inputs - Rising cage w/screw, 16-30 GA

ENVIRONMENTAL: PCB's - Edge sealed to each other with RTV to prevent penetration of moisture or other contaminants.

Operating Temperature - 0°C to +70°C

AC POWER: 90-265VAC, 50/60Hz, 5W maximum

RECOGNITIONS:

Conforms to UL STDS 60730-1 & 60730-2-9

Certified to CSA STDS E60730-1 & E60730-2-9

² - Total external 5VDC current load (SSR1 + SSR2 + INP) = 90mA maximum.



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