

# RSW Technologies llc



## TC5200

### Features:

- Multi-cavity hot runner temperature controller. One single temperature controller has 26 to 72 points and even up to 240 points in a network. Maintenance operations can be simplified with its modular device design and requirement-based configuration. The purchasing costs are greatly reduced by its unique temperature control, with two points within one level.

- The GUI based user interface, along with its adjustable perspective angle, is easy for fast adoption in multi-point control. The RS485 communication function enables you to set up multiple controls at once to simplify the required operations. The built-in and practical current sensor and indicator functions benefit various applications, especially automotive, bottle billet injection, and medical supplies, by realizing the concept of one-stop control.



### Specifications:

- Automatic ID recognition
- PID auto-tune temperature control
- Editable zone name (auto/manual)
- Group zones by tip or manifold
- Automatic shutdown for heater abnormality
- Current, output percentage display function
- Easy swapping for individual module failures
- Follower function for thermocouple disconnection
- 8 curves display (temperature, output percentage)
- Synchronized temperature raising/lowering
- Module memory (internal and external USB drive)
- Internal alarm buzzer (with alarm sound stop switch)
- Detection for heater open and short circuits
- RS485 communication function: ASCII and RTU mode
- To protect the power source input wrong wiring and less phase
- Selectable two output trigger modes (Phase angle / Zero cross)
- Temperature range: Thermocouple K  
TYPE: 0~600°C (32~999°F) / J TYPE: 0~600°C (32~999°F)
- Self diagnosis log: (current, voltage, heater impedance, power, thermocouple, heater, fuse, TRIAC status)
- Group setup function
- Auto/Manual function
- Web based file output function (USB)
- Selectable six alarm modes
- Load Power Usage display per zone
- Detection for fuse breakage
- Setting for output percentage limit
- Power balance detection and display
- Thermocouple break and inverse detect
- Selectable two thermocouple types (J/K)
- Selectable two temperature scales (°C/°F)

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## TC5100

### Features:

- Adjustable user perspective: 110° ~ 145°
- Rack type cabinet design
- USB port
- 7" TFT SVGA LCD
- NAND Flash 8M +128M
- Module section 15A 2 zone / 30A 1 zone
- The module plug-in is designed for easy maintenance



### Specifications:

- Automatic ID recognition
- PID auto-tune temperature control
- Editable zone name (auto/manual)
- Group zones by tip or manifold
- Automatic shutdown for heater abnormality
- Current, output percentage display function
- Easy swapping for individual module failures
- Follower function for thermocouple disconnection
- 8 curves display (temperature, output percentage)
- Synchronized temperature raising/lowering
- Module memory (internal and external USB drive)
- Internal alarm buzzer (with alarm sound stop switch)
- Detection for heater open and short circuits
- RS485 communication function: ASCII and RTU mode
- To protect the power source input wrong wiring and less phase
- Selectable two output trigger modes (Phase angle / Zero cross)
- Temperature range: Thermocouple K  
TYPE: 0~600°C (32~999°F) / J TYPE: 0~600°C (32~999°F)
- Self diagnosis log: (current, voltage, heater impedance, power, thermocouple, heater, fuse, TRIAC status)
- Group setup function
- Auto/Manual function
- Web based file output function (USB)
- Selectable six alarm modes
- Load Power Usage display per zone
- Detection for fuse breakage
- Setting for output percentage limit
- Power balance detection and display
- Thermocouple break and inverse detect
- Selectable two thermocouple types (J/K)
- Selectable two temperature scales (°C/°F)

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## TC500

### Features:

- Wiring Friendly design
- Easy swapping for individual module failures
- Compact size, light weight, installed directly on the injection molding machine
- Automatic ID recognition
- 6 or 12 zone design



### Specifications:

- Built-in NFB switch
- Auto/Manual function
- PID auto temperature control
- Current, output percentage display function
- Setting for output percentage limit
- Heat sink temperature detection
- Selectable two thermocouple types (J / K)
- Selectable two temperature scales (°C / °F)
- Selectable six alarm modes
- Selectable two output trigger modes (Phase angle / Zero cross)
- Temperature range: Thermocouple  
K TYPE:0~600°C(32~999°F)  
J TYPE:0~600°C(32~999°F)
- RS485 communication function: ASCII and RTU mode
- Thermocouple break and inverse detect
- Detection for heater open and short circuits
- Detection fuse breakage
- Automatic shutdown for heater abnormality
- Automatic switch to manual mode if thermocouple breaks

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**ARICO**

**TC5H** (in 4 zone main frame)



## Features:

- Simple designs
- LCD display
- Internal alarm buzzer
- Built-in NFB switch
- One-key activated / deactivated standby function
- Fast alternative for 230V/380V power input
- Universal standardized chassis for any brand of module

## Specifications:

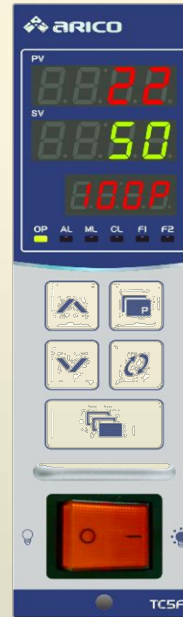
- Overvoltage protection, preventing burning of module resulting from faulty wiring
- Heater shorting detected
- Automatic detection of wire breakage of heater
- TRIAC short-circuit protection
- Detection against temperature wire breakage and reverse Troubleshooting of Temperature Sensor wiring.
- Blown Fuse detection
- Display function of current and output ratio.
- Smart SOFT START function
- Manual output in case of temperature sensor unusually
- Auto/Manual Selection Function
- PID Automatic Temperature Control
- Output percentage limit setting
- Two options of temperature sensor wire types (J/K)
- Two options of temperature unit (°C/°F)
- Six alarm options
- RS485 communication function: ASCII and RTU mode (Optional)
- K TYPE Thermocouple range: 0 ~ 600 °C ( 32~999 °F )
- J TYPE Thermocouple range: 0 ~ 600 °C ( 32~999 °F )



## TC5F

### Features:

- Dual SV temperature control
- Tri lines LED display
- Auto / Manual function
- PID auto temperature control
- Selectable thermocouple types ( J / K )
- Selectable temperature scales ( °C / °F )
- Selectable six alarm modes
- Selectable two trigger output modes ( Phase angle / Zero cross )
- Fuse break indicator
- Electric current, output percentage, frequency for power display function
- Heater breaks, shorts out, wears out to detect and examine the function
- Thermocouple break and inverse detect
- RS485 communication: ASCII and RTU molding



### Specifications:

- Power input: 230 VAC  $\pm$  15 %
- Power frequency: 50 / 60 Hz
- Power consumption(MAX): 7W (each module)
- Input impedance: 10M  $\Omega$
- Output wattage: 3600W, Every module 15A / 240Vac
- Storage temperature: -20 ~ 70 °C
- Work temperature: 0 ~ 50 °C
- Work humidity: 10 ~ 80 % RH. ( non-condensing )
- Control accuracy:  $\pm$  0.25 % FS
- Measure accuracy:  $\pm$  0.25 % FS
- K TYPE Thermocouple range: 0 ~ 600 °C ( 32~999 °F )
- J TYPE Thermocouple range: 0 ~ 600 °C ( 32~9999 °F )

### Available Frame Sizes:

- 2
- 4
- 8
- 12



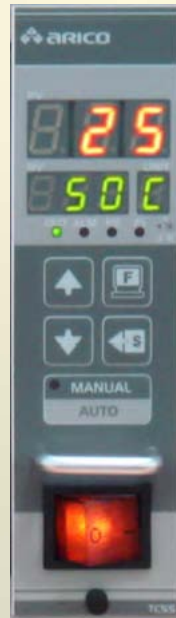
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 ARICO

TC5S

## Features:

- Dual line LED display
- Unit display
- Auto/Manual function
- PID auto temperature control
- Selectable thermocouple types (J or K)
- Selectable temperature scales ( C or F)
- Selectable six alarm modes
- Zero trigger output modes (zero cross)
- Fuse break indicator
- Thermocouple break and inverse detect



## Specifications:

- Power Input: 220 Vac + 15 %
- Power Frequency: 50/60 Hz
- Power Consumption: 2W (each module)
- Input Impedance: 16M Ohm
- Output Wattage: 3600W, 15A/240 VAC
- Storage Temperature: 20 - 70 C
- Work Temperature: 0 - 50 C
- Work Humidity: 10 - 80% RH (non-condensing)
- Control Accuracy: + 0.25% FS
- Measure Accuracy: + 0.25% FS
- K Type Thermocouple Range: 0 - 700 C (0 - 1200 F)
- J Type Thermocouple Range: 0 - 500 C (0 - 900 F)

## Available Frame Sizes:

- 2
- 4
- 8
- 12

