

# SLATE INTEGRATED COMBUSTION EQUIPMENT MANAGEMENT

The revolutionary integration of configurable safety and programmable logic in a single, modular platform.



**Honeywell**



## COMPLEXITY.

This is today. Individual components from multiple vendors. Various platforms and protocols. Complicated wiring schematics. It's no wonder development cycles are measured in months and years.

# SLATE

Differentiation is the name of the game, but it requires time and money. SLATE™ streamlines and simplifies the product development process, helping you win in more industries and applications in a matter of weeks – not months or years.

## SIMPLICITY.

SLATE™ from Honeywell brings together configurable safety and programmable logic for the first time ever. It is a platform that can easily be customized for almost any thermal process application - in less time with less complexity. It's time to rethink how you bring combustion equipment management solutions to market.

The revolution is here.

## PROGRAM FASTER

Flexible programming tools help you implement proprietary applications more quickly.

## SPEED PRODUCTION

Load your custom application kit with a PC for faster duplication.

## CUT ENGINEERING TIME

Eliminates complex, time-consuming wiring and programming.

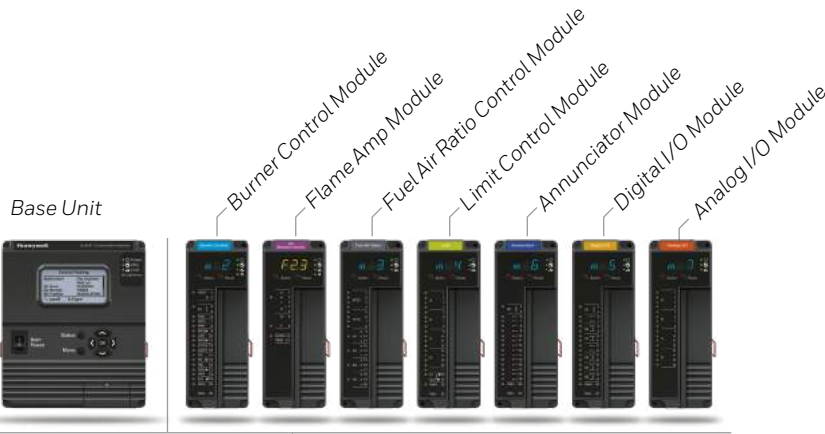
## SIMPLIFY INVENTORY

One platform from one vendor means significantly fewer products to source, purchase, stock and manage.



# ONE PLATFORM. UNLIMITED MARKETS AND APPLICATIONS.

- Metal
- Glass
- Asphalt
- Automotive
- Pulp & Paper
- Refining & Petrochemical
- Ceramics
- Food & Beverage
- Oil & Gas
- Textiles
- Construction
- Commercial HVAC



Touchscreen Display



Actuators

## THE SLATE TOOLKIT

SLATE™ PART NUMBERS	DESCRIPTION	FUNCTION
R8001A1001	Base Module	24 VDC or 24 to 240 VAC power supply, Modbus, BACnet and web services communications
R8001K1010	SLATE Color Display	10" color LCD web-based display
R8001B2001	Burner Control Module	Burner control for detecting flame using rectification, UV or infrared, for combustion applications; includes valve proving
R8001V1031	Flame Amp Module	Rectification with dynamic ampli-check
R8001F1041	Flame Amp Module	Low voltage I/R with dynamic ampli-check
R8001S1071	Flame Amp Module	UV with dynamic ampli-check
R8001S1051	Flame Amp Module	UV with dynamic self-check
R8001F1091	Flame Amp Module	UV/Visible with dynamic ampli-check
R8001U3001	Analog Module	Universal analog input and output module, configurable for 0-10V, 4-20mA, thermocouple, RTD, NTC, PWM and more
R8001D4001	Digital Module	Universal digital input and output module with up to 14 opto relays
R8001C6001	Fuel Air Ratio Control Module	Module for controlling the relationship between fuel, airflow, and flue gas recirculation. Supports up to 4 SLATE actuators and 2 VFDs.
R8001N7001	Annunciator Module	Module for monitoring states of permissive and interlocks with first-out annunciation
R8001L8001	Limit Control Module	Module for configuration of limit protection for pressure and temperature
R8001S9001	Sub-Base Assembly	Sub-base for DIN-rail mounting. Required for all modules except base module.
R8001M1050	Actuator Module	50 in/lb actuator, NEMA 1 enclosure
R8001M1150	Actuator Module	150 in/lb actuator, NEMA 1 enclosure
R8001M4050	Actuator Module	50 in/lb actuator, NEMA 4 enclosure
R8001M4150	Actuator Module	150 in/lb actuator, NEMA 4 enclosure
Configure to Order	Actuator Module	300 in/lb actuator, NEMA 4 enclosure
Configure to Order	Actuator Module	900 in/lb actuator, NEMA 4 enclosure

# SERVE MORE GLOBAL INDUSTRIES WITH ONE PLATFORM

Expanding into new markets involves a costly learning curve with new products, protocols and programming. With SLATE, your team can engineer custom solutions for a variety of global markets without ever going back to the manufacturer.

## UNPARALLELED APPLICATION FLEXIBILITY

SLATE is easily configured for virtually any application, including commercial, industrial, single- and multi-burner, boiler, industrial process and more.

## UNIVERSAL I/O SCHEME

Purchase only the modules your application requires and choose how to use them with simple wiring commands.

## CUSTOMIZABLE HIGH-DEFINITION DISPLAY

10-inch color touchscreen display can be programmed using basic web page technology for a tailored end user experience.

## GLOBAL SAFETY APPROVALS

Serve a broader global customer base with agency approvals, SLATE is UL certified for U.S. and Canada, FM, is CSD-1 acceptable and SIL-3 capable.

## UNIVERSAL POWER SUPPLY

24 VAC/DC – 230 VAC 50/60 HZ power supply makes SLATE compatible with nearly all global commercial and industrial requirements.



## **EASIER INSTALLATION**

### **On-board communication protocols**

Built-in BACnet and Modbus services enable seamless integration.

### **DIN-rail mountable**

Modular platform easily mounts to a DIN rail for faster installations in the field.

## **EFFICIENT OPERATION**

### **Intuitive diagnostics**

Simple, easy-to-understand messages enable real-time system monitoring and more timely, informed decision-making.

### **Optimized energy efficiency**

Integrated O2 trim and two VFD control with the fuel air ratio control module while optimizing burner performance.

### **On-board system guides**

On-screen system guides make it easy to find answers or troubleshoot in the field.

## **FASTER SERVICE**

### **Status indicators**

Technicians can quickly identify problems – no blinking lights, no fault codes and no manuals.

### **Plug-and-play replacement**

Individual modules can be easily removed and replaced without purchasing and reprogramming a whole new platform.

### **Easy data backup**

Application kit and platform information can be downloaded and saved with an SD card and USB drive.

## **EXCEPTIONAL SUPPORT TO ENABLE YOUR SUCCESS**

### **Product training**

In-person or self-guided video modules. Global engineering services. Application engineers can assist with , your most complex applications.

### **Technical support**

Tech support hotline for product and installation questions.

### **Application resources**

Visit [ThermalSolutions.Honeywell.com](http://ThermalSolutions.Honeywell.com) for more details.



*Industrial boiler*



## **IT'S EASY TO SWITCH.**

**Why engineer multiple systems to run an application when you can use one platform from Honeywell?**

With configurable safety and programmable logic in a single platform, SLATE allows you to offer differentiated solutions more quickly, easily, and cost effectively than ever before. Trade complexity for simplicity today – and start realizing the benefits.

**For more information**

Visit [ThermalSolutions.Honeywell.com](https://ThermalSolutions.Honeywell.com),  
[Combustion.Honeywell.com/SLATE](https://Combustion.Honeywell.com/SLATE) or  
[Customer.Honeywell.com](https://Customer.Honeywell.com)

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**THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT**

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