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

SLATE™ from Honeywell brings together configurable safety and programmable logic for the first time ever. It’s one platform from one vendor that can easily be customized for almost any 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.
Faster time to market for a competitive advantage

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.

Program faster
Flexible programming tools help you implement proprietary applications more quickly.

Cut engineering time
Eliminates complex, time-consuming wiring and programming.

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

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

The SLATE toolkit

BASE UNIT
TOUCHSCREEN DISPLAY
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 world 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
7-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, and CSD-1 acceptable. SIL-3 (coming soon).

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 mean there’s no need for a separate gateway, enabling seamless integration with Building Automation Systems.

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 additions on the fuel air ratio control module ensure exceptional accuracy 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.
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.
Exceptional support to enable your success

**Product training**  
In-person or self-guided video modules.

**Technical support**  
Tech support hotline for product and installation questions.

**Global engineering services**  
Application engineers can assist with your most complex applications.

**Application resources**  
Visit combustion.honeywell.com/SKATE and log in with your customer.honeywell.com credentials for spec sheets, case studies, how-to videos and more.

<table>
<thead>
<tr>
<th>SLATE™ Part Numbers</th>
<th>Description</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>R8001A1001/U</td>
<td>Base Module</td>
<td>24 VDC or 24 to 240 VAC power supply, Modbus, BACnet and web services communications</td>
</tr>
<tr>
<td>R8001B2001/U</td>
<td>Burner Control Module</td>
<td>Burner control for detecting flame using rectification, UV or infrared, for combustion applications; includes valve proving</td>
</tr>
<tr>
<td>R8001V1031/U</td>
<td>Flame Amp Module</td>
<td>Rectification with dynamic ampli-check</td>
</tr>
<tr>
<td>R8001S1041/U</td>
<td>Flame Amp Module</td>
<td>Low voltage I/R with dynamic ampli-check</td>
</tr>
<tr>
<td>R8001S1071/U</td>
<td>Flame Amp Module</td>
<td>UV with dynamic ampli-check</td>
</tr>
<tr>
<td>R8001S1051/U</td>
<td>Flame Amp Module</td>
<td>UV with dynamic self-check</td>
</tr>
<tr>
<td>R8001U3001/U</td>
<td>Analog Module</td>
<td>Universal analog input and output module, configurable for 0-10V, 4-20mA, thermocouple, RTD, NTC, PWM and more</td>
</tr>
<tr>
<td>R8001D4001/U</td>
<td>Digital Module</td>
<td>Universal digital input and output module with up to 14 opto relays</td>
</tr>
<tr>
<td>R8001C6001/U</td>
<td>Fuel Air Ratio Control Module</td>
<td>Module for controlling the relationship between fuel, airflow, and flue gas recirculation. Supports up to 4 SLATE actuators and 2 VFDs.</td>
</tr>
<tr>
<td>R8001N7001/U</td>
<td>Annunciator Module</td>
<td>Module for monitoring states of permissive and interlocks with first-out annunciation</td>
</tr>
<tr>
<td>R8001L8001/U</td>
<td>Limit Control Module</td>
<td>Module for configuration of limit protection for pressure and temperature</td>
</tr>
<tr>
<td>R8001S9001/U</td>
<td>Sub-Base Assembly</td>
<td>Sub-base for DIN-rail mounting. Required for all modules except base module.</td>
</tr>
<tr>
<td>R8001K5001/U</td>
<td>SLATE Color Display</td>
<td>7&quot; color LCD web-based display</td>
</tr>
<tr>
<td>R8001M1050/U</td>
<td>Actuator Module</td>
<td>50 in/lb actuator, NEMA 1 enclosure</td>
</tr>
<tr>
<td>R8001M1150/U</td>
<td>Actuator Module</td>
<td>150 in/lb actuator, NEMA 1 enclosure</td>
</tr>
<tr>
<td>R8001M4050/U</td>
<td>Actuator Module</td>
<td>50 in/lb actuator, NEMA 4 enclosure</td>
</tr>
<tr>
<td>R8001M4150/U</td>
<td>Actuator Module</td>
<td>150 in/lb actuator, NEMA 4 enclosure</td>
</tr>
</tbody>
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Learn More  
Visit combustion.honeywell.com/SKATE or customer.honeywell.com

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03-00098  
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