



**Achieve advanced burner control with Honeywell's ABC900 PLC-based platform.**

With the ABC900, critical burner and boiler management features are integrated into a single compact platform with precise digital control. You'll realize combustion efficiency over the entire burner firing range with significant electrical energy savings, fuel savings and reduced installation time. Experience optimized combustion control with O<sub>2</sub> trim, draft and VFD control along with system reliability. For the power to meet your advanced burner and boiler control needs, turn to the Honeywell ABC900.

# ABC900 Advanced Burner Control

The ABC900 Advanced Burner Control is a PLC-based control tailored for burner and boiler applications. You'll get integrated control with fuel-air ratio control, optional O<sub>2</sub> trim, up to six actuator channels and up to two dedicated VFD channels. Optional drum level control with boiler feedwater control, optional draft damper control, fuel selection inputs and mass fuel-flow monitoring offer flexible boiler control. The ABC900 also interfaces with programmable flame safeguard controls.



## Choose The Advanced Burner Control For Your Application

Input/Output Description	ABC900A1000 Platform A		ABC900B1009 Platform B	
	Inputs	Outputs	Inputs	Outputs
Alarm Horn or Light		1		1
High Fire Proven Input to RM78xx		1		1
Low Fire Proven Input to RM78xx		1		1
High Fire Demand from RM78xx	1		1	
Low Fire Demand from RM78xx	1		1	
Main Valve Demand from RM78xx	1		1	
Call for Heat from Limits, Controller	1		1	
Call for Heat to RM78xx		1		1
Firing Rate (Pressure or Temperature)	1		1	
O <sub>2</sub> Trim Sensor	1		1	
Auto/Manual Selection	1		1	
Fuel Selection	2		3	
Dedicated VFD Outputs/Feedback	1	1	2	2
Actuator Outputs/Slidewire Feedback	3	3	6	6
CO Sensor			1	
CO <sub>2</sub> Sensor			1	
Stack Temperature (FGR)			1	
Fuel Mass Flow Monitoring			3	
Boiler Feed Pump				1
Drum Level Control			1	1
Draft Damper Control			1	1

## Typical Applications

The ABC900 works with burners and boilers of all types and sizes, including industrial, process and heating that require extended control and monitoring. The integrated control functions make it ideal for factories, schools, hospitals, universities, office complexes and commercial retail complexes.

## Specifications

### Components

- ABC900A1000 Platform A
- ABC900B1009 Platform B
- 1042F-0042-42 LCD Operator Interface
- 51452041-501, Power Supply for 1042F

### Operating Temperature Range

- ABC900: 32° to 140° F (0° to 60° C)
- Display: 32° to 113° F (0° to 45° C)

### Operating Humidity Range

- ABC900: 10 to 90% RH, non-condensing
- Display: 20 to 80% RH, non-condensing

### Panel Rating

- Display: NEMA Type 4X

### Power Supply

- ABC900: 120-240 Vac, integral
- Display: 120-230 Vac, separate

### Component Approvals

- CE, UL, CSA, CUL, FM Class 1, Div. 2

## Learn More

For more information please contact your Honeywell distributor or visit <http://customer.honeywell.com>.

## Automation and Control Solutions

In the U.S.:

Honeywell

1985 Douglas Drive North

Golden Valley, MN 55422-3992

In Canada:

Honeywell Limited

35 Dynamic Drive

Toronto, Ontario M1V 4Z9

[www.honeywell.com](http://www.honeywell.com)

63-9751  
June 2007  
© 2007 Honeywell International Inc.

# Honeywell