

# Series 35-9X Modulating Platform Ignition Module (PIM®)

**FENWAL**  
CONTROLS

F-35-2000  
October 2018

## OPERATION AND INSTALLATION INSTRUCTIONS

### DESCRIPTION

The Fenwal Controls Platform Ignition Module (PIM®) integrates the functions of Automatic Ignition Control with temperature regulating and control functions. The PIM is designed for a range of hydronic boilers including both staged systems and modulating types. The PIM can be configured as a direct spark ignition (DSI), intermittent pilot (IP) or Hot Surface Ignition (HSI) to provide safe lighting and supervision of the burners in an appliance. The PIM is also designed to connect to and receive commands from the tekmar®<sup>1</sup> Host Controller. When connected to a Host Controller, the PIM offers expanded control functionality including Domestic Hot Water, outdoor reset, diagnostic messages, and other system capabilities.



### APPLICATIONS

The PIM and Host Controller system is suited to a wide variety of gas-fired hydronic heating systems including:

- High-efficiency Modulating Condensing Boilers
- Fan-assisted single and multi-staged Boilers
- Multiple Boiler Installations using intelligent sequencing
- Intermittent Pilot based Hydronic appliances
- Water Heaters
- Pool and Spa Heaters

### AGENCY APPROVALS



CSA Design certified to ANSI Z21.20,  
CAN/CSA C22.2 No. 199-M59 and ANSI  
Z21.20-2014 CAN/CSA C22.2 No.  
60730-2-5-14



CE Approved to EN 298-2012<sup>2</sup>

1. The tekmar BTCII Boiler Controller is fully compatible with the Fenwal PIM and provides complete hydronic boiler operation. For more information, contact tekmar controls at (250) 545-7749.

2. EMC Emission testing to be verified after incorporation into end use appliance.

### SPECIFICATIONS

 <b>WARNING</b>	Installing or operating the product inconsistent with these instructions or specifications could cause serious property damage, injury or death.	
	<b>Specification</b>	<b>Value</b>
Input Power	Control: 18-30 VAC 50/60 Hz (Class 2 Transformer)	
Input Current Drain	400 mA @ 24 VAC with gas and blower relays energized (Control only)	
Gas Valve Relays	5.0A max (continuous)	
Combustion Blower	5.0 A max for standard (32) connection 15.0 A max for heavy-duty (XS relay) terminals	
Hot Surface Igniter	5.0 A max, 120/240 VAC	
Pump Relays	5.0 A max (continuous)	
Alarm Relay	2.0 A, 30 VDC or 30 VAC max	
Operating Temperature	-40°F to + 165°F (-40°C to +74°C)	
Storage Temperature	-40°F to + 185°F (-40°C to +85°C)	
Sensor Temperature Range	-22°F to + 260°F (-30°C to +126°C)	
Flame Sensitivity	0.7 µA minimum	
Flame Failure Response or Reignition Time	0.8 seconds maximum	
Flame Detector Self-check Rate	Once per second minimum	
Flame Failure Lockout Time	Varies by model	
Types of Gas	Natural, LP, or manufactured	
Spark Rate	Remote sense (50/60 Hz) Local sense (25/30 Hz)	
Size (LxWxH)	8.50 x 6.50 x 2.50 inches (21.59 x 16.51 x 6.35 cm)	
Ingress Protection	Not rated, protection provided by appliance in which it is installed.	
Moisture Resistance	Conformal coated to operate non-condensing to 95% R.H.	
Trials for Ignition	One or three try versions available	
Trial for Ignition Period	1 to 30 seconds, up to 300 seconds (IP)	
Pre-purge Timings	1 to 255 seconds	
Inter-purge Timings	1 to 255 seconds	

# Fenwal Control Panel Manual Ar Series

**Judd E. Hollander**



**Fenwal Control Panel Manual Ar Series:**

*Approval Guide* ,1995      *Instruments* ,1952-07      *American Export Register* ,1985      **Paint Industry Magazine**  
,1955      The Paint Industry Magazine ,1955      *Electrical Manufacturing* ,1953      Instruments & Control Systems  
,1967-07      **Power Plant Engineering** ,1963      **Thomas Register of American Manufacturers and Thomas Register**  
**Catalog File** ,2002 Vols for 1970 71 includes manufacturers catalogs      Radio-electronics ,1949      *Electro-technology*  
Stanley A. Dennis,Leon Irving Thomas,1955      **Power Engineering** ,1962      Electro Technology Newsletter Stanley A.  
Dennis,Leon Irving Thomas,1951      *Product Engineering* ,1961      **U.S. Industrial Directory** ,1981      **Who's who in**  
**the South and Southwest** ,1993      **Who's Who in the Midwest** Marquis Who's Who,Marquis Who's Who, LLC,2004-06  
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