# All-Spark™ Intermittent Pilot / Direct Spark Ignition Module

Universal

50D50U-843

Replace over 800 24V IP + DSI part numbers and speed up install with the White-Rodgers Connect app



#### **Streamline Inventory**

Configurable for both 24V intermittent pilot (IP) and direct spark ignition (DSI) systems

Save truck space by replacing over 800 part numbers with one SKU

Decrease carrying costs with fewer parts





### Simplify Installation with the White-Rodgers Connect App

Quick configuration without power, prior to install Diagnose fault codes and troubleshoot confidently View system status with the tap of a finger Access installation resources and product literature via quick links



#### **Increase Efficiency with Innovative Features**

7-Segment Display provides additional configuration options and expanded fault code message reporting

Rajah and spade spark terminals on-board eliminate need for external adapter





#### **ELECTRICAL SPECIFICATIONS**

SPECIFICATION	VALUE	UNIT
Input Voltage	18-30	VAC
Input Current Max	800	mA
Line Frequency	50/60	Hz
Inducer Relay at 120V	3.0/6.0	FLA/LRA
Inducer Relay at 240V	1.5/3.0	FLA/LRA
Main Gas Valve Relay Max Rating (Direct Spark System Only)	4.0	Amp
Main Gas Valve Relay Max Rating (Intermittent Pilot System)	2.0	Amp
Pilot Gas Valve Relay Max Rating	2.0	Amp
Alarm Relay	1.0	Amp
Flame Current to indicate Flame Loss	< 0.50	μA DC
Spark Rate	20	Hz
Spark Gap	0.1-0.2	inches

#### **TIMING SPECIFICATIONS**

INTERMITTENT PILOT	DEFAULT OPTION	OTHER OPTIONS
Tries for Ignition	Continuous	1, 2, 3
Trial for Ignition (seconds)	90	4, 15, 30, 60
Pre-Purge Duration (seconds)	0	15, 30, 45
Inter-Purge Duration (seconds)	0	15, 30, 45
Flame Sense Type	Local	Remote
Auto Restart Time (minutes)	5	60

DIRECT SPARK IGNITION	OPTIONS
Tries for Ignition	1, 2, 3
Trial for Ignition (seconds)	4, 7, 10, 11, 15, 21
Pre-Purge Duration (seconds)	30, 45, 0, 15
Inter-Purge Duration (seconds)	30, 45, 90, 0, 15
Post-Purge Duration (seconds)	0, 5, 15, 30
Flame Sense Type	Local, Remote
Auto Restart Time (minutes)	5, 60
Inducer / Pressure Switch Option	On, Off

No configuration needed when replacing Honeywell S8610U factory default control

## SIMPLIFY INSTALLS WITH THE WHITE-RODGERS CONNECT APP



**Near Field Communication (NFC)** creates an interface between the control and your mobile device with the White-Rodgers Connect app. Place mobile device in contact with the NFC marking on module to enable a connection.

Once downloaded, the White-Rodgers Connect App does not require cellular/WiFi service to use.



Visit AllSparkpro.com to learn more

#### **COMPETITIVE COMPARISON**

Product Feature	Fenwal 35-60, -61	Honeywell S8610U	All-Spark TM 50D50U-843
Cross Ref. #s	1 (individual SKUs)	425	800+
Ignition Type	DSI	IP	IP/DSI
User Configuration	None	Dipswitch	7-Seg. LEDs
NFC + App	No	No	Yes
Inducer/PSW	Yes	No	Yes
Alarm Output	Yes	No	Yes
On-board Spark Output	Rajah or Spade	Spade	Rajah and Spade

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