

Residential Combustion

Honeywell

FALL/WINTER 2007-2008

**Application Selection and
Cross-Reference Guide**

Phone:

Residential Technical Support:

1-800-468-1502

Burner Boiler Support:

1-888-516-9282

Sales Support:

1-800-328-5111

Customer Service:

1-888-793-8193

Residential Zoning:

1-800-828-8367

Online:

www.customer.honeywell.com

www.hotfreshcool.com

www.honeywell.com

www.literature.honeywell.com

Contractor PROSM:

Phone: 1-800-919-4835

Fax: 1-763-954-4097

Exclusive Technical Support
for Contractor PROSM members:

1-877-880-3383

www.contractorpro.com

The Universal Choice

Now more than ever, there's no need to clutter your stockroom or trucks with hundreds of low-use products or spend time scouring distributors for an exact model. The universal compatibility of many Honeywell residential products lets you meet your needs with just one brand. It only takes a few Honeywell models to replace hundreds of other units, so you'll save time in your day and space on your truck. Add in that Honeywell gas, oil and hydronic controls offer state-of-the-art diagnostic and troubleshooting capabilities, and you'll see that reliable Honeywell products are the only brand you need.

When selecting a residential combustion/burner/boiler control for your next job, look for these Honeywell features:

- Universal replacement
- State-of-the-art diagnostics
- Simplified troubleshooting
- Inventory reduction
- EnviraCOM® communications enabled



Telephone Access Module (TAM)

Honeywell's latest innovation in remote home monitoring is the Telephone Access Module (TAM).

The TAM allows the homeowner to adjust comfort levels in their home, cabin or vacation retreat by using their telephone. The TAM also offers the feature to notify the homeowner and local contractor when a system failure occurs. Honeywell's TAM, your remote home monitoring system.

The TAM is also compatible with:

- VisionPRO® IAQ
- EnviraZONE™
- Whole-House Humidifier
- Whole-House Dehumidifier
- Whole-House Ventilation
- Whole-House Ultraviolet Treatment
- Whole-House Air Cleaner

TELEPHONE ACCESS MODULE	
Part Number	Description
W8735D1009	2-Channel TAM
W8735D1017	4-Channel TAM

VISIONPRO IAQ TOTAL HOME COMFORT SYSTEM	
Part Number	Description
TH9421C1004	Thermostat Only
YTH9421C1002	Thermostat and Equipment Interface Module
THM5421C1008	Equipment Interface Module Only



VisionPRO® IAQ



Equipment Interface Module



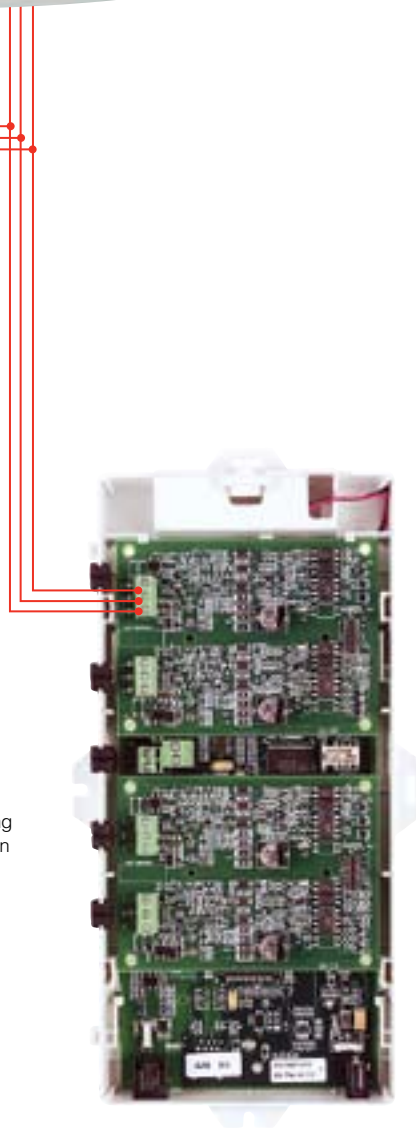
Works With Complex HVAC Systems
Monitor and adjust the temperature in up to 36 zones within your home through a single Honeywell TAM



Remote Monitoring of Your Home, Cabin or Vacation Property
Remotely monitor multiple parameters, including temperature, humidity and power; You can even detect the presence of water in your property



Access Your Thermostat By Phone
Remotely access your thermostat to change the temperature in your home or vacation property to your desired level before arriving



Control Indoor Air Quality (IAQ) and comfort with Honeywell's VisionPRO IAQ Total Home Comfort System. VisionPRO® IAQ eliminates the need for multiple controls in the living space by managing temperature, humidification and dehumidification, and air filtration — all from a single, effortless, touchscreen control.



Emergency Condition Notification:
Receive instant phone notification when there is an emergency in your vacation home such as a temperature drop that indicates a heating failure and potential for property damage.



Dispatch Help Immediately
Program your TAM to contact your HVAC contractor immediately for repair service after detecting an emergency condition



Multiple Alarm Priorities
Tell your TAM to notify you differently based on the severity of the situation, calling you instantly when water is first detected on the floor or the basement, but only at a pre-determined time when the air filter needs to be changed



Easy Configuration and Access
User friendly, voice driven menu for remote system set up and modification of your TAM

Gas Valves

Honeywell has taken the guesswork out of gas valve selection with our new line of universal gas valves. Contractors appreciate the reliability, ease of installation and time saved by carrying a select few gas valves on their truck. Honeywell gas valves — the right choice every time.

When selecting a gas valve for your next job, look for these Honeywell features:

- Universal application
- Reduced inventory
- Easy installation and adjustments
- Compact design



Honeywell

VR8345M/VR8345Q/VR8345H/ VR8245M

Universal Electronic Ignition Gas Valve

- Wide-capacity control for almost any IP, HSI or DSI gas-fired appliances
- Compact fit simplifies field replacement
- Use with 24 Vac heating appliances, using natural, manufactured or LP gas
- Use the VR8345Q for a 2-stage application, VR8345M for a standard and VR8345H for a slow-opening application
- Capacities from 20 to 200 (VR8245) cfh or 30 to 415 (VR8345) cfh



VR8300/VR8200

Universal Standing Pilot Gas Valve

- Combination gas controls for use in 24 Vac, gas-fired, standing pilot appliances with capacities from 20 to 200 (VR8200) cfh or 30 to 415 (VR8300) cfh
- Includes safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment
- Universal replacement for virtually all Honeywell and competitive standing pilot valve models



VS820

Millivolt Combination Gas Valve

- Self-powered automatic control
- Use with 750 mV pilot generator
- Easy to install and service with all the adjustments and connections accessible from the top of the control
- 34 to 425 cfh capacity



Gas Valves Selection Guide

TRADE REPLACEMENTS (Double-Check Specifications Before Replacement)		SPECIFICATIONS				ACCESSORIES				
Universal Service Part	Direct Service Part Replacement	Opening Characteristics (standard, step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting (psi)	Temperature Range	Includes				
						Q340 Thermocouple	3/4" x 1/2" Reducer Bushing	Natural to LP Conversion Kit	3/4" Straight Flange	1/2" x 3/8" Reducer Bus
VR8300A4516	VR8300A4508	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	Two	One	None	None
	VR8300A3500	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	One	One	None	None
	VR8300A4516	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	One	Two	One	None	None
VR8245M2530	VR8204A2076	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	None	One	One	One
	VR8204M1091	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	None	One	One	One
	VR8205A2024	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	None	One	One	One
	VR8245M2530	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	None	One	None	One
VR8345H4555	VR8205H1003	Slow	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	None	None	None	None
	VR8304H4503	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	None	One	None	None
	VR8345H4555	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	Two	One	None	None
VR8345M4302	VR8304M3509	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	One	One	None	None
	VR8304M4507	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	Two	One	None	None
	VR8305M3506	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	One	One	One	None
	VR8345M4302	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175° F (-40° to 79° C)	None	Two	One	None	None
VR8345Q4563	VR8205Q2555	2-Stage	1/2 x 1/2	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175° F (-40° to 79° C)	None	None	One	None	One
	VR8304Q4511	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175° F (-40° to 79° C)	None	Two	One	None	None
	VR8305Q4500	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175° F (-40° to 79° C)	None	One	One	None	None
	VR8345Q4563	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175° F (-40° to 79° C)	None	Two	One	None	None
VR8200A2744	VR8200A2124	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	One	None	One	One	One
	VR8200A2132	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175° F (-18° to 79° C)	None	None	One	One	One
	VR8200A2744	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	1° to 175° F (-18° to 79° C)	None	None	One	One + One Elbow	One
VS820A1088	VS820A1054	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	32° to 175° F (0° to 79° C)	None	Two	None	None	One
	VS820A1336	Standard	3/4 x 3/4	10.0 in. wc (2.49 kPa)	32° to 175° F (0° to 79° C)	None	Two	None	None	One
	VS820A1088	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	32° to 175° F (0° to 79° C)	None	Two	One	None	One

Notes:

All piloted valves have a 1/4" compression fitting.
 All the VR valves come set for natural gas, but can be converted to LP gas.
 The VS820A1054 is for natural gas. The VS820A1336 is for LP gas.
 All the VR valves have inlet and outlet pressure taps. The VS820 valves have just an outlet pressure tap.

		COMPETITIVE REPLACEMENT		
Thing	Remote Rod Adapter	Honeywell	White-Rodgers	Robertshaw
	None	VR8300A4003, VR8300A4011, VR8300A4037, VR8300A4045, VR8300A4557, VR8300A4565	36C01-405	720-406 (7200ER)
	None	VR8300A3104, VR8300A3120, VR8300A3153, VR8300A3161, VR8300A3203, VR8300A3559, VR8300A3567, VR8300A3575	36C03-300, 36C03-400, 36C03-433, 36C03-258	720-404 (7200ER)
	None	VR8300A4003, VR8300A4011, VR8300A4037, VR8300A4045, VR8300A4557, VR8300A4565		700-400
	None	VR8204A1201, VR8204A1219, VR8204A2001, VR8204A2175, VR8204A2803		
	None	VR8204M1075	36E01-204, 36E01-205, 36E01-206, 36E01-305, 36E93-304	722-079 (2000IPERHC)
	None		36G22-214	722-051 (2000DERHC)
	None	VR8205M1106, VR8205M2310, VR8205M2443, VR8205M2450, VR8205M2476	36E36-304, 36E22-214	720-079 (7200IPER), 720-080 (7200IPER-LP)
	None	VR8305H4013, VR8305H4039		
	None	VR8204H1006		720-070 (7200IPER-S7C), 720-071 (7200IPER-S7C), 720-072 (7200IPER-S7C), 720-073 (7200IPER-LP-S7C)
	None		36E98-304, 36E24-214, 36E52-214	700-052
	None			
	None	VR8304M4002		
	None	VR8305M4066, VR8305M4165, VR8305M4231	36G22-214, 36C68-423	720-051 (7200DER)
	None		36E36-304, 36C68-423	
	None	VR8205Q2662, VR8205Q2746, VR8205Q2787, VR8205Q2381	36E54-214	
	None		36C76-406, 36C76-420, 36C76-463	
	None	VR8305Q4146	36D13-208, 36D13-405, 36G54-214	
	None		36E96-314	720-082 (7200IPER2-4)
	None	VR8200A2116, VR8200A2264, VR8200A2322*		720-400 (7200ER), 720-402 (7200ER)
	None			720-400 (7200ER), 720-402 (7200ER)
	None	VR8200A2322*		
	None	VS820A1005, VS820A1013, VS820A1047, VS820A1278, VS820A5204, VS820A1922	36C03U-300, 36C03U-333, 36C03U-400, 36C03U-433	
	None	VS820A1211, VS820A1740, VS820A1120, VS820A1898, VS820A1872, VS820A1906		
	Yes	VS820A1807, VS820A2003, VS820A1815, VS820A1039, VS820A2011		

*Canadian Numbers

For a complete cross-reference, visit www.customer.honeywell.com

SmartValve™ System Controls

Honeywell SmartValve™ combines gas flow control and electronic ignition into a single unit, providing safety and simplified wiring and appliance construction. You'll find Honeywell SmartValves on equipment ranging from furnaces, water heaters, boilers and rooftops to infrared heaters, cooking units and much more.



Honeywell

SmartValve™

- Family members cover the full range of opening characteristics (slow, normal, fast) and ignition systems (hot surface, hot surface pilot)
- Universal kits include natural to LP conversion and 3/4" to 1/2" bushings
- Universal family increases service efficiency and reduces truck and warehouse inventory

* Diagnostic Testers
Flame Current Kit #395466
Input Voltage Harness #396085

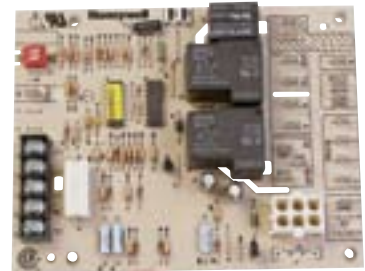


SmartValve Accessories

SmartValve System Electronic Fan Timer

The ST9160U integrates control of all circulating fan operations in a gas warm-air appliance. This control is the central wiring point for most of the electrical components in the furnace.

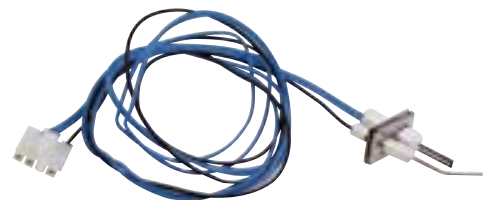
- Monitors the thermostat for heat, cool and fan demands (controls a two-speed circulating fan as required)
- Features a fixed heat fan on delay and a field-adjustable heat fan off delay
- Electronic air cleaner and humidifier convenience terminal connections provided
- Continuous low speed indoor air circulation is also available



Hot Surface Pilot/Sensor Assembly

The Q3400A Igniter-Flame Rod Assembly replaces the original igniter-flame rod assembly in the Q3450 and Q3480 pilot hardware used with the SV9500 and SV9600 SmartValve system. The Q3400A has a unique keyed plug connector that will only fit the SV9500/SV9600 systems.

- Can be replaced without removing the pilot burner
- Max temp 250° C
- Order SKU Q3400A1024



SmartValve™ Control Systems Selection Guide

		SPECIFICATIONS						
Ignition/Application	Universal Service Part	Gas Type	Opening Characteristics	Ambient Temperature Range	Include			
					Natural to LP Conversion Kit	3/4" x 1/2" Bushing		
HSI Water Heaters	SV9570A2518	Natural	Standard Opening	0° to 150° F (-18° to 66° C)	No	None		
	SV9570A2526	LP						
Intermittent HSI Pilot with Combustion Air Control and Limit Monitoring Forced Air Furnace	SV9541Q2561	Natural	2-Stage	-40° to 175° F (-40° to 79° C)	Yes	None		
	SV9641M4510		Standard Opening		Yes	Two		
Direct Ignition, General Application	SV9510M2511	Natural	Standard Opening	-40° to 175° F (-40° to 79° C)	Yes	None		
	SV9520M2536							
	SV9510K2539		Slow Opening					
	SV9520H8513		Fast-Slow Opening				0° to 175° F (-18° to 79° C)	
Intermittent HSI Pilot, General Application	SV9601M4571	Natural	Standard Opening	-40° to 175° F (-40° to 79° C)	Yes	Two		
	SV9501M2528							
	SV9501M8129		Fast-Fast				0° to 175° F (-18° to 79° C)	None
	SV9502H2522		Slow Opening					
	SV9602P4816		Step Opening	-40° to 175° F (-40° to 79° C)	None	Two		
	SV9602P4824							
	SV9602P4832							
	SV9602P4840							

		CROSS-REFERENCE	
Reducers	Extension Harness	OEM Brands	Replaces
e	No	A.O. Smith	SV9570A2054, SV9570A2070, SV9570A2096
		A.O. Smith	SV9570A2062, SV9570A2088, SV9570A2187
e	No	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9540Q2464, SV9541Q3098
		ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite, Mestek, Slant/Fin	SV9541M2094, SV9540M2229, SV9540M2260, SV9640M4116, SV9640M4124, SV9540M2278, SV9540M2245, SV9640M3126, SV9640M4132
e	No	Modine	SV9510M2347, SV9510M2362, SV9410M2902, SV9510M2412, SV9510M2354, SV9410M2910, SV9510M2388, SV9510M2420
			SV9420M2331, SV9520M2403, SV9420M2323
		Roberts Gordon	SV9510H2228, SV9510K2133, SV9510K2158, SV9510K2141, SV9510K2166
		Armstrong, Concord, AirEase	SV9520H8042, SV9520H8034, SV9520H8067, SV9520H8026
o	No		SV9601M4167, SV9601M3003, SV9601M4225
		ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501M2056, SV9501M2080, SV9501M2718, SV9501M2726, SV9501M2031, SV9501M2049, SV9501M2239, SV9501M2700, SV9501M2734, SV9501M2742, SV9501M2064
e	Yes		SV9501M8103
		Laars, Utica, Armstrong, Concord, AireEase	SV9501H3415, SV9501H2417, SV9501H2409, SV9502H1706, SV9502H2704, SV9501H3423, SV9501H2425
o	Yes	Burnham, ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501P2004, SV9601P4107, SV9501P2053, SV9502P2101, SV9602P4105
		Burnham	SV9501P2087, SV9601P4172, SV9502P2127, SV9602P4121
		Burnham	SV9501P2020, SV9501P2046, SV9601P4149, SV9601P4164, SV9502P2119, SV9502P2135, SV9602P4113, SV9602P4139
			SV9601P4115

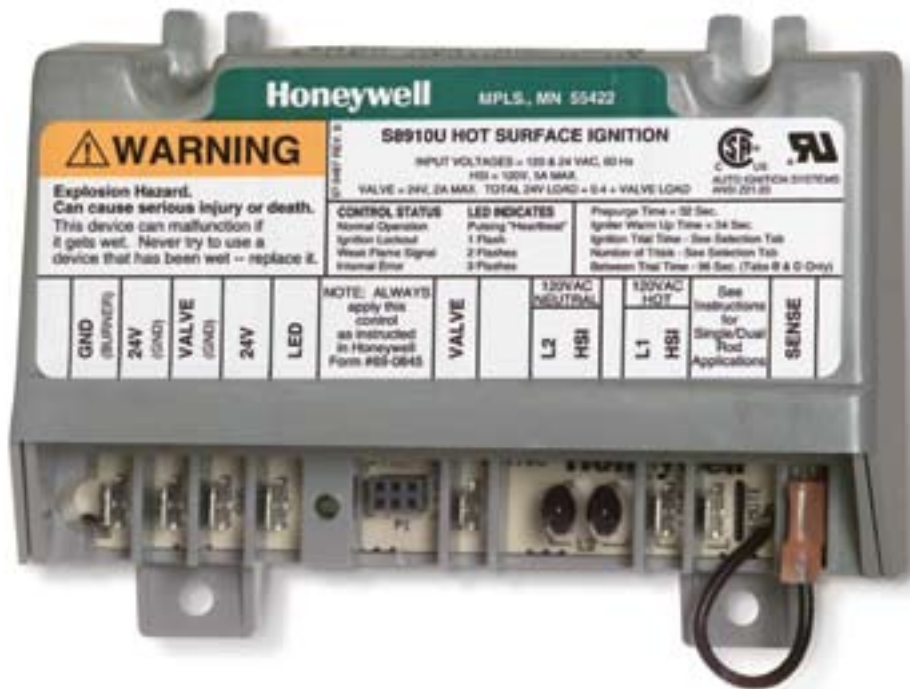
Ignition Modules

Grow your business while reducing your inventory with Honeywell's line of ignition modules.

Be prepared to provide electronic control for nearly all intermittent or hot surface ignition applications from gas-fired furnaces to boilers with Honeywell's universal controls.

When selecting ignition modules for your next job, look for these Honeywell features:

- Universal compatibility
- Easy installation
- Adaptation accessories included
- Used with single-rod or dual-rod systems
- EnviraCOM® communications enabled



Honeywell

S8910U

Universal Hot Surface Ignition Module

- Easy field replacement for most hot surface ignition modules
- Single-rod or dual-rod systems
- LED diagnostics and field-adjustable ignition timings
- Natural or LP gas
- All adaptation accessories included
- Replaces over 100 Honeywell and competitive products



S8610U

Universal Intermittent Pilot Ignition Module

- Easy field replacement for most intermittent pilot modules
- Single-rod or dual-rod systems
- Field-selectable pre-purge and ignition trial timings
- LED flame strength indicator
- EnviraCOM® communications for additional diagnostics
- Integral damper connections
- Diagnostic LED helps direct service effort
- Replaces over 300 Honeywell and competitive models



Y8610U

Universal IP Retrofit Ignition System Kit

- Use with 24 Vac gas-fired atmospheric furnaces, boiler and heating appliances
- Convert standing pilot appliance to electronic ignition
- Natural or LP gas



Ignition Modules Selection Guide

Universal Service Part	APPLICATIONS			TIMINGS				
	Ignition System	Flame Sensor	Ignition Sequence (Note 1)	Ignition Trials To Lockout (Note 1)	Ignition Trial Time	Between Trial Time	Pre-Purge	Flame Failure Response Time
S8910U1000	Line Volt Hot Surface Ignition	1 or 2 Rods	P	1 or 3 Field Selectable	4 sec. or 7 sec. Field Selectable	96 sec., 3 Trial Mode Only	32 sec.	1.5 sec.
S8610U3009	Intermittent Pilot	1 or 2 Rods	C	C	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec. or 30 sec. Field Selectable	2.0 sec. max.
Y8610U6006	Intermittent Pilot	Single Rod	C	C	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec.	2.0 sec. max.

Notes:

1. Ignition Sequence

C	Continuous retry — After trial for ignition, pilot gas shuts off for 5 minutes, then another trial for pilot ignition takes place.
P	The number of trials for ignition and trial time is determined by the selection tab. If a selection tab is not installed, the module will operate at four seconds trial time and one ignition trial.

FEATURES AND FUNCTIONS				CROSS-REFERENCE			
Type of Gas	Ignition Source	Typical Ignition Hardware	Includes	Honeywell	White-Rodgers	Robertshaw	Johnson Controls
Nat or LP	Switched Line Voltage	Norton 201, Norton 271, Hot Surface Elements, Q354 Flame Rod		S89C1004, S89C1007, S89C1012, S89C1046, S89C1087, S89C1103, S89D1002, S89G1005, S89G1011, S89G1013, S89G1021, S89G1029, S89G1047, S89H1003, S89H1011, S89H1029, S89J1008, S89D1006, S89G1003, S89G1037, S89H1002, S89H1010	50E47 1-79, 101-179, 201-279, 301-379, 5047F 1-79, 101-179, 201-279, 301-379	HS780-17NL, 104A, 306A, 308A, HS780-17NR 104A, 306A, 308A, HS780-34NL 108A, 304A, 306A, 308A, 312A, HS780-34NR 104A, 306A, 308A, 312A, HS780-34PL 308A	
Nat or LP	Internal	Q345, Q3451, Q3452	Integral Damper Connector	S8600A1001, S8600B1009, S8600C1015, S8600F1000, S8600F1034, S8600F1042, S8600H1006, S8600H1022, S8600H1048, S8600H1071, S8600H1089, S8600H1097, S8600M1013, S8600M1021, S8610A1009, S8610B1007, S8610B1015, S8610C1005, S8610C1013, S8610F1008, S8610F1016, S8610F1024, S8610F1032, S8610F1032, S8610H1012, S8610H1038, S8610H1046, S8610H1053, S8610H1079, S8610M1003, S8610M1029, S8620H1002, S8620H1028	50D50-843	780-701, 710-713, 715, 735-737, SP710, SP715, SP720, SP730, SP735, SP750 Series	CSA42, 43, 44, 45, 46, 48, 49, G60, G65, G67, G770 Series
Nat or LP	Internal	Adapter for Pilot Burner Included					

For a complete cross-reference, visit www.customer.honeywell.com

Thermocouples/Thermopiles

Contractors depend on Honeywell for easy installation and reliable performance. Built for long service life, the Honeywell Q313A, Q340A and Q390A will meet your service needs.

When selecting a thermocouple or thermopile for your next job, look for these Honeywell features:

- Variety of lead lengths
- Easy installation
- Many accessories included
- Durability



Thermocouple and Thermopile Selection Guide

THERMOCOUPLES						
Lead Length (in.)	Super Tradeline	Tradeline				
			White-Rodgers	Robertshaw	Husky	Johnson Controls
18	Q340A1066/U	Q390A1095/U	H06E-518, H06E-18		K16BT-18	K19AT-18
24	Q340A1074/U	Q390A1046/U	H06E-524, H06E-24	1970-24, 1980-24	K16BT-24	K19AT-24
30	Q340A1082/U	Q390A1053/U	H06E-530, H06E-30	1970-30	K16BT-30	K19AT-30
36	Q340A1090/U	Q390A1061/U	H06E-536, H06E-36	1970-36, 1980-36	K16BT-36	K19AT-36
48	Q340A1108/U	Q390A1103/U	H06E-548, H06E-48		K16BT-48	K19AT-48

THERMOPILES					
Model	Item	Lead Length (in.)	Connection	Tradeline/Super Tradeline	Notes
Q313	Q313A1022/U	35	Nut & Spade Terminal	Tradeline	
	Q313A1139/U	35	Clip & Spade Terminal	Super Tradeline	Push-In Clip
	Q313A1170/U	35	Clip & Spade Terminal	Super Tradeline	PG9 Adapter (393948)
	Q313A1188/U	35	Nut & Spade Terminal	Super Tradeline	Push-In Clip, 1/2" Attaching Nut
	Q313A1055/U	47	Nut & Spade Terminal	Tradeline	1/2" Attaching Nut
	Q313A1105/B	75	Nut & Spade Terminal	Tradeline	1/2" Attaching Nut

Honeywell

For a complete cross-reference, visit www.customer.honeywell.com

Q313A

Replacement Thermopile

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 750 mV in a millivolt heating system



Q340A

Universal Thermocouple

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 30 mV in standing pilot systems
- The Q340A is a premium thermocouple with the long life and durability that your customers demand; built with a maximum amount of copel, the Q340A will provide long-lasting service that reduces callbacks and keeps your customers happy



Q390A

Universal Thermocouple

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 30 mV in standing pilot systems
- For situations where a utility grade thermocouple is the best solution, the Q390A is the right choice

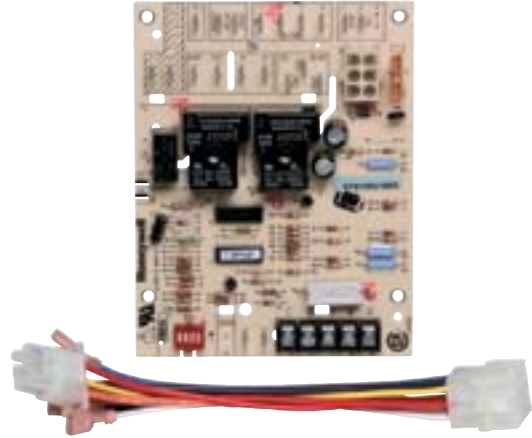


Universal Electronic Fan Timer

Integrate control of all combustion blower and circulating fan operations in a gas warm-air appliance when you use the Honeywell ST9120U universal fan timer board.

When selecting fan timers for your next job, look for these Honeywell features:

- Universal application
- Easy installation
- Quality construction for long service life



ST9120U1003

- Replaces 25 existing Honeywell controls to reduce inventory
- Central wiring point for most of the electrical components of the furnace
- Monitors the thermostat for heat, cool and fan demands
- Runs the induced draft blower motor and runs a circulating fan as required
- Monitors limit switch strings and energizes ignition control systems
- Replaceable fuse
- DIP switch selectable heat and cool delay on and off times

ST9120U REPLACES OVER 25 EXISTING MODELS			
ST9101A1006	ST9120C1020	ST9120C4016	ST9120G2016
ST9101A1014	ST9120C2002	ST9120C4040	ST9120G2024
ST9101A1022	ST9120C2010	ST9120C4057	ST9120G2032
ST9120A1006	ST9120C2028	ST9120C5005	ST9120G4004
ST9120A2004	ST9120C3000	ST9120C5013	ST9120G4012
ST9120B1005	ST9120C3018	ST9120D3009	ST9120G4038
ST9120C1012	ST9120C4008	ST9120G2008	



Universal Electronic Fan Timer OEM Replacement Guide

RECOMMENDED DIP SWITCH SETTING					
Model	Original OEM Brands	1	2	3	4
ST9101A1006	Rheem/Ruud	Off	On	Off	On
ST9101A1014	Rheem/Ruud	Off	On	Off	On
ST9101A1022	Trade	Off	On	Off	On
ST9120A1006	Armstrong, Concord, AirEase	Off	On	Off	On
ST9120A2004	Armstrong, Concord, AirEase	Off	Off	On	Off
ST9120B1005	Ducane	Off	Off	Off	On
ST9120C1012	Snyder General	Off	On	Off	Off
ST9120C1020	Nordyne	Off	On	Off	Off
ST9120C2002	York	Off	On	Off	On
ST9120C2010	Ducane	Off	On	Off	On
ST9120C2028	Armstrong, Concord, AirEase	Off	On	Off	On
ST9120C3000	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
ST9120C3018	Bard	Off	On	Off	Off
ST9120C4008	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On

*ST9120U Factory Default Setting

RECOMMENDED DIP SWITCH SETTING					
Model	Original OEM Brands	1	2	3	4
ST9120C4016	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
ST9120C4040	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
ST9120C4057	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
*ST9120C5005	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	Off	Off	On	On
*ST9120C5013	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	Off	Off	On	On
*ST9120D3009	Goodman, GMC, Janitrol	Off	Off	On	On
ST9120G2008	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	On	On	Off
ST9120G2016	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	On	Off	On
ST9120G2024	Skymark	On	Off	Off	On
ST9120G2032	Skymark	Off	Off	Off	On
ST9120G4004	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
ST9120G4012	ICP, Heil, Tempstar, Arcoaire, Comfortmaker, KeepRite	On	Off	On	On
ST9120G4038	Trade	On	Off	On	On
ST9120U1003	Trade	Off	Off	On	On

For a complete cross-reference, visit www.customer.honeywell.com

HSI Universal Integrated Furnace Control

- Complete set of wiring harnesses for universal compatibility and simplified installation
- LED indicators provide system status, performance and diagnostic information
- EnviraCOM[®]-enabled for easy setup of local or remote monitoring and diagnostic systems
- Ready for remote services, whether you're replacing old controls or installing new equipment like the VisionPRO™ IAQ, Telephone Access Module or EnviraZONE™
- Engineered for reliability and long-term performance



S9200U1000 REPLACES THESE INTEGRATED FURNACE CONTROLS
United Technologies
1012-925A, 1012-925B, 1012-925C, 1012-955A, 1012955A, 1012-83-9651B, 1012-930, 1012933D, 1012-933D, 1012-83-9336AHSC1, 1012-83-9337A
Rheem/Robertshaw
62-24268-01, 62-24268-02, 62-24268-03
Nordyne
624557, 6245570, 624557-0, 624564, 6245640, 624591, 624591A, 624591-A, 624591-B, 624591-C, 624591-D, 624628, 624628-0, 6246310, 624631-0, 624631A, 624631-A, 624631-B, 710128A, 902378, 902696, 903106
Carrier
903106, CAR33101972200, CAR03101973000, CAR50A55843, CARB1809913S
Texas Instruments
6DT-1, 6DT-2, 61F3, 41F-5
York
03100662000, 031-00662-000, 031-00662-700, 031-01140-000, 031-01140-001, 031011140002, 031-01140-002, 031-01140-701, 031-01140-702, 031.01234.000, 031-01234-700, 031-01235-700, 031-01250-000, 0310126700, 031-01267-000, 031-01267-001, 031-01267-001A, 031-01284-000, 03101933000, 031-01933-000, 031-01972-000, 031-01973-000, 031-02166-000, 33101933000, 331-01933-000, 331-01972-200, 43101972100, 431-01972-100, P03101267001, P031-01267-001, P031-01267-001, PTH031011400-00
Lennox
G951ADB1401, G951ADB1401C, G951ADB-1401C, G951ADB1402, G951ADB-1402, G951AEB-1403
White-Rodgers
50T35-743, 50A55-120, 50A55-143, 50A55-285, 50A55-288, 50A55-438, 50A55-(474-571), 50A55-843, 50A50-143, 50A50-285, 50A50-286, 50A50-438
Goodman
1809913, 18099-13S, B180996, B1809906, B18099-6, B18099-06, B1809908, B18099-08, B1809910, B18099-10, B18009910, B180099-10, B1809913, B18099-13, B1809913S, B18099-13S, B18009913, B180099-13
ICM
ICM280

Universal Integrated Furnace Control Selection Guide

	SKU	HARNESS	FIELD SETTINGS RECOMMENDATION				SAFETY TIME SETTINGS		
			SW1	SW2	SW3	SW4	SW1	SW2	
UTEC	1012-925A	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	On	On	
	1012-925B								
	1012-925C								
	1012-955A	50024568: Main Connector & 50024565 Inducer & HSI Connector	On	Off	60/90/120/180	60/90/120/180	On	Off	
	1012955A								
	1012-83-9651B	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	1012-930	50026393: Main Connector & 50026446 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	1012933D								
1012-933D									
1012-83-9336AHSC1									
1012-83-9337A									
White-Rodgers	50A50-209	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	50A50-230								
	50A55-241								
	50T35730	50026393: Main Connector & 50026446 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	50T35-730								
	50T35743								
	50T35-743								
	Universal Models	50A55-120	No Wiring Harness Required	Off	Off	60/90/120/180	60/90/120/180	Off	Off
		50A55-143		On	Check Settings	60/90/120/181	60/90/120/181	Off	Off
		50A55-285		On	Off	60/90/120/181	60/90/120/181	Off	Off
		50A55-286		On	Off	60/90/120/181	60/90/120/181	Off	On
		50A55-288		On	Off	60/90/120/181	60/90/120/181	Off	Off
		50A55-438		Check Settings	Off	60/90/120/181	60/90/120/181	Off	Off
		50A55-(474-571)		Check Settings	Off	60/90/120/181	60/90/120/181	Off	Off
		50A55-843		Check Settings	Check Settings	60/90/120/181	60/90/120/181	Off	Off
		50A50-143		On	Check Settings	60/90/120/181	60/90/120/181	Off	On
50A50-285		On		Off	60/90/120/181	60/90/120/181	Off	On	
50A50-286		On		Off	60/90/120/181	60/90/120/181	Off	On	
50A50-438		Check Settings		On	60/90/120/181	60/90/120/181	Off	On	
Carrier	903106	50024568: Main Connector & 50024565 Inducer & HSI Connector	On	Off	60/90/120/180	60/90/120/180	On	Off	
	CAR33101972200	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	CAR03101973000								
	CAR50A55843								
CARB1809913S	50026393: Main Connector & 50026446 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On		
York	03100662000	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On	
	031-00662-000								
	031-00662-700								
	031-01140-000								
	031-01140-001								
	031011140002								
	031-01140-002								
	031-01140-701								
	031-01140-702								
	031.01234.000								
	031-01234-700								
	031-01235-700								
	031-01250-000								
	0310126700								
	031-01267-000								
	031-01267-001								
	031-01267-001A								
	031-01284-000								
	03101933000								
	031-01933-000								
	031-01972-000								
	031-01973-000								
	031-02166-000								
	33101933000								
	331-01933-000								
	331-01972-200								
	43101972100								
	431-01972-100								
P03101267001									
P031-01267-001									
P031-01267-001									
PTH031011400-00									

	SKU	HARNESS	FIELD SETTINGS RECOMMENDATION				SAFETY TIME SETTINGS	
			SW1	SW2	SW3	SW4	SW1	SW2
Lennox	G951ADB1401	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On
	G951ADB1401C							
	G951ADB-1401C							
	G951ADB1402							
	G951ADB-1402							
G951AEB-1403								
Robertshaw	Rheem/Robertshaw	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	On	On
	62-24268-01							
	62-24268-02							
	62-24268-03							
ICM	ICM280	50026393: Main Connector & 50026446 Inducer & HIS Connector	Check Control Safety Timings Before Setting				Check Control Safety Timings Before Setting	
TI	6DT-1	50024568: Main Connector & 50024566 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On
	6DT-2							
	61F3							
	41F-5	50026393: Main Connector & 50026446 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On
Nordyne	624557	50024568: Main Connector & 50024565 Inducer & HSI Connector	On	Off	60/90/120/180	60/90/120/180	On	Off
	6245570							
	624557-0							
	624564							
	6245640							
	624591							
	624591A							
	624591-A							
	624591-B							
	624591-C							
	624591-D							
	624628							
	624628-0							
	6246310							
	624631-0							
	624631A							
	624631-A							
624631-B								
710128A								
902378								
902696								
903106								
Goodman	1809913	50026393: Main Connector & 50026446 Inducer & HIS Connector	On	Off	60/90/120/180	60/90/120/180	Off	On
	18099-13S							
	B180996							
	B1809906							
	B18099-6							
	B18099-06							
	B1809908							
	B18099-08							
	B1809910							
	B18099-10							
	B18009910							
	B180099-10							
	B1809913							
	B18099-13							
	B1809913S							
	B18099-13S							
B18009913								
B180099-13								

Fan and Limits

Honeywell fan and limits combines high temperature limit with circulating blower control. As an industry standard for many years, these controls have a large and varied installed base. You'll find Honeywell fan and limits on a wide range of furnace equipment. Our universal family increases service efficiency and reduces truck and warehouse inventory.

Key features for the family of universal fan and limits:

- Family members cover the full range of insertion — 5", 8", 11-1/2"
- Adjustment tool and cross-reference allow for field adjustment to factory settings
- Universal kit accessories reduce inventory

L4064

High Limit and Fan Controller

- Used in all types of forced-air heating systems
- Three wiring terminal options available for easy installation
- Available in a variety of fan and high-limit setting ranges
- Controls adapt to many competitive mounting holes in replacement applications
- Push-in receptacles for stripped wire
- L4064 models for timed fan on
- Special high temperature limit models
- Suitable for line voltage, low voltage or millivoltage control applications



L6064

High-Limit and Two-Speed Fan Controller

- Provides two-speed fan control
- Continuous low-speed and high-speed on-call for heat
- Same overall size and mounting as L4064
- Same specifications as L4064



Honeywell

Fan and Limits Selection Guide

MODEL	OS#	REGION	ELEMENT INSERTION LENGTH (IN.)	REPLACES	HIGH LIMIT STOP (°F)	FAN-ON STOP (°F)	FAN-OFF STOP (°F)	MANUAL FAN BUTTON	MANUAL RESET	SWITCHING ACTION
L4064	L4064B1469	US	5	L4064B1600, L4064B3440, L4064B3010, L4064B1683, L4064B2228, L4064B2640, L4064B2889, L4064B2947, L4064B3374, L4064B3432, L4064B2897, L4064B3598, L4064B3515, L4064E2502, L4064E2585, L4064E2528, L4064F1098, L4064A2501, L4064A1339, L4064A1503	160 to 200	110 to 125	85 to 100	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064W1080	US	5	L4064W1072, L4064W1163, L4064W1197, L4064W1056, L4064W1064, L4064W1296, L4064Y1565	200	120	90	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064R1159	Canada	5	L4064R1043, L4064R1076	200 to 250	125	100	Yes	Yes	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064B2236	US	8	L4064B3457, L4064B1618, L4064B1691, L4064B2608, L4064B2905, L4064B2962, L4064B2772, L4064B3572, L4064B3051, L4064B3085, L4064B3499, L4064B3481, L4064B3390, L4064E2452, L4064E2544, L4064A2279, L4064A2998, L4064A2030, L4064A1735, L4064A1347, L4064A1511, L4064A2774	170 to 250	120 to 140	90 to 104	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064R1142	Canada	8	L4064R1019, L4064R1118, L4064R1126	180 to 250	125	100	Yes	Yes	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064W1098	US	8	L4064W1007, L4064W1171, L4064W1130, L4064W1221, L4064W1205, L4064W1288, L4064T1707, L4064T1715, L4064T1780, L4064T2093, L4064T2440, L4064W1015, L4064Y1573	150 to 220	100 to 185	90 to 120	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064B1451	US	11.5	L4064A1321, L4064A1453, L4064A2758, L4064A3046, L4064B3580, L4064B3465, L4064B1592, L4064B1725, L4064B1931, L4064B2210, L4064B2723, L4064B2863, L4064B2954, L4064B3036, L4064B3044, L4064B3077, L4064B2756, L4064B3069, L4064E2551	170 to 250	122 to 130	90 to 104	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064N1058	Canada	11.5		175 to 200	104 to 165	68 to 104	Yes	Yes	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064R1134	Canada	11.5	L4064R1100, L4064R1068, L4064R1035, L4064R1027	170 to 250	125	100	Yes	Yes	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
	L4064W1106	US	11.5	L4064T1046, L4064T2457, L4064W1213, L4064W1254, L4064Y1540	200 to 210	125 to 130	100	Yes	No	Fan: SPST — N.O. (make on rise), Limit: SPST — N.C. (break on rise)
L6064	L6064A1052	Canada	5	L6064A1094, L6064E1020	180 to 200	105 to 125	90 to 100	No	No	Fan: SPDT, Limit: SPST — N.C. (break on rise)
	L6064A1045	Canada	8	L6064A1086	200	125 to 130	100	No	No	Fan: SPDT, Limit: SPST — N.C. (break on rise)
	L6064A1037	Canada	11.5	L6064A1003, L6064A1078, L6064A1151	200	125 to 165	85 to 100	No	No	Fan: SPDT, Limit: SPST — N.C. (break on rise)

* Some models limit, Fan On and Fan Off need to be adjusted.

For a complete cross-reference, visit www.customer.honeywell.com

Oil Primaries

Simplification is the key with Honeywell oil primaries. Their universal design, installation ease and ability to upgrade make them highly valuable tools for contractors and distributors alike. All Honeywell oil controls come with a two-year warranty.

When selecting an oil primary for your next job, look for these Honeywell features:

- Universal capability
- EnviraCOM® communications enabled
- Versatility
- Durability
- Diagnostic LED



Honeywell

R7184

Universal Interrupted Electronic Oil Primary

- EnviraCOM® communications enabled
- Diagnostic LED
- Pump priming cycle — exclusive Honeywell feature
- Limited reset
- Limited recycle — exclusive Honeywell feature
- Valve-on and blower motor-off delay
- Cad cell flame strength indicator — exclusive Honeywell feature
- Interrupted or intermittent ignition



R8184

Protectorelay® Oil Burner Control

- Industry-standard intermittent ignition control
- Solid-state, flame-sensing circuit
- 45-second timing, safety switch
- Mounts on standard 4" x 4" junction box
- External button to manually reset safety switch after lockout



R8182

Combination Protectorelay® and Hydronic Heating Controllers

- Immersion-type Aquastat® controller and oil burner primary control
- Provides high limit and low limit/circulator control
- Use in intermittent ignition applications
- Circulator zone control with ZC and ZR terminals on R8182D, E, H, J



RA116A / RA117A

Universal Interrupted Electronic Oil Primary

- Versatile mounting for curved or flat surfaces
- Interrupted and Intermittent
- 75-second lockout timing
- Replaces many competitive models



Oil Primaries Selection Guide

OIL PRIMARY					
			Specific		
Ignition Type	Universal Service Part	Direct Service Part Replacement	Lockout Time (sec.)	Valve On Delay (sec.)	Blower Off Time (sec.)
Interrupted	R7184U1004	R7184U1004	15	0/15	0/20
		R7184A1026			
		R7184B1024		15	
		R7184P1098		15	0/20
	R7184U1012	R7184U1012	30	0/15	0/20
		R7184A1034			
	R7184U1020	R7184U1020	45	0/15	0/20
		R7184A1042			
Intermittent	R7184U1004	R8184G4066	15		
	R7184U1012	R8184G4074	30		
	R7184U1020	R8184G4009	45		
	R8184M1051	R8184M1051			

(1) Includes 40 VA transformers and heat/cool thermostat connections for warm-air furnace applications.

R8182 COMBINATION AQUASTAT AND OIL PRIMARY

Direct Service Part	Features and Functions			Includes	Upgraded Cross-Reference
	Mounting	Differential Temperature (°F)			Honeywell
		High Limit	Low Limit/ Circulator		
R8182D1079	Vertical	10 fixed	10 to 25	Heat-Conductive Compound	R8182E1118
R8182D1111	Horizontal	10 fixed	10 to 25	Heat-Conductive Compound	R8182D1129
R8182H1070	J Box	10 fixed	10 to 25	Heat-Conductive Compound	
R8182J1042	J Box	15 fixed		Heat-Conductive Compound	R8182J1059

STACK SWITCHES

Model Number	Ignition Type	Replaces
RA116A1055	Intermittent	RA116A1063
RA117A1047	Interrupted	

ALARMS

Applications			Cross-Reference		
Delay (min.)	Alarm Contacts	Manual Trip Lever w/ LED Indicator	Honeywell	Carlin	White-Rodgers
1/4/6	Yes	Yes	R7184P1031, R7184P1049, R7184P1056, R7184P1064, R7184P1072	50200-02S, 602000-02S, 6020002S015120, 6020002S030015, 6020002S030015, 6020002S030030, 6020002S030120, 6020002S030300, 6020002S030010	
			R7184A1075, R7184A1000	40200-02S	669-640,669-670
			R7184B1032, R7184B1016		
25			R7184P1080		
1/4/6	Yes	No			
			R7184A1018	42230-02S	669-440, 669-445, 669-470, 669-540
1/4/6	Yes	No			
		Yes	R8184G1294, R8184G1302, R8184G4074, R8184G4033		668-601, 668-670
		Yes	R8184G1393, R8184G1302, R8184G4074, R8184G4033		668-501
	Yes	Yes	R8184G1286, R8184G1427, R184G4025, R8184G4082, R8184G1458	48245-S	668-401, 668-0415, 668-430, 668-515
	Yes				
	Yes	Yes (no LED)			
			R8184M1002		668-441, 668-451, 668-454

CAD CELL SELECTOR GUIDE

Product Number	CAD Cells (1)	Lead Length (in.)	Wire Termination	Mounting Bracket	Includes	Tradeline Value	Replaces
C554A1315	120320	30	Stripped	Type B		Tradeline	
C554A1463	130367	60	2 Flag 1/4" QC	Type R	A, B, E, J and P Mounting Brackets and Fuel Line Adaptor	Super Tradeline	C554A1307, C554A1315, C554A1398, C554A1133, C554A1174, C554A1372, C554C1570, C554A1216, C554A1927, C554A1794
C554A1794	130367	60	Stripped	Type R	E Mounting Bracket and Fuel Line Adaptor	Tradeline	C554A1307, C554A1927

Notes:

*120320 replacement CAD cell 7.5 MA minimum sensitivity at 2' candles.

*130367 high-sensitivity CAD cell 12 MA minimum sensitivity at 2' candles.

For a complete cross-reference, visit www.customer.honeywell.com

Aquastats®

The boiler industry standard, Honeywell Aquastats® have a proven track record, wide OEM new equipment usage and a large installed base. Our new electronic Aquastat family builds on this reputation while adding performance-enhancing features. Honeywell service parts have you covered, offering universal compatibility and improved service call efficiency — while keeping both distributor and contractor satisfaction in mind.

When selecting an Aquastat for your next job, look for these Honeywell features:

- Broad range and flexibility covers a variety of applications and needs
- Universal versions allow multiple mounting and configuration capability
- Universal versions reduce inventory and assure truck availability
- Electronic versions include communications as a standard feature, allowing add-on efficiency, troubleshooting and monitoring capability
- EnviraCOM® communications enabled



Honeywell

L7224

Universal Oil Electronic Aquastat®

- EnviraCOM® communications enabled
- Diagnostic updates through easy-to-read LED displays
- +/- 2° F accuracy and faster response times
- Easy installation with multiple knockouts
- Adjustable high- and low-limit differential
- High-limit only or high-plus-low-limit all in one
- Provides multizone control
- Immersion type controllers that combine high-limit protection with low-limit and circulator control in hydronic heating systems
- Thermowell horizontal or vertical and flange mounting



L8124/L8148

Triple Aquastat Relay

- Oil and gas versions
- High-limit or high-and-low-limit versions
- Mounts directly on boiler horizontally or vertically
- Provides multizone control
- Immersion-type controllers that combine high limit protection with low limit and circulator control in forced hydronic heating systems
- The L8148 includes a transformer to provide power for the low-voltage control circuit
- Gas versions include a transformer to provide power for the low voltage circuit



L6006/L4006

Aquastat Controller

- Totally enclosed Micro Switch snap-acting switches operate on temperature rise to setpoint
- Visible control point scale and external adjustment screw permit easy setting
- Horizontal or vertical insertion of sensing element
- Direct or well immersion of the sensing element
- SPST and SPDT switching action



L6008/L4008

Aquastat Controller

- Visible control point scale and external adjustment screw permit easy setting
- Horizontal or vertical mounting of the remote element into boiler, tank or other container
- Fast-responding remote temperature sensor
- SPDT or SPST switching action



Single-Function Aquastat® Selection Guide

		SENSOR AND THERMOWELL			FEATURES AND FUNCTION			
Product Number (Note 1)	Switch Configuration	Thermowell Included	Thermowell Spud Size — 14 NPT (in.)	Capillary Length (in.) (Note 2)	Manual Reset	Operating Temperature Range (°F)	Factory Stop (°F)	
L4006A1009	SPST - N.C. (break on rise)	Yes	1/2	1-1/2		100 to 240		
L4006A1017		Yes	1/2	1-1/2		100 to 240		
L4006A1132		Yes	3/4	3		100 to 240	160	
L4006A1678					3		100 to 240	
L4006A1959					3		40 to 180	
L4006A1967		Yes	1/2	1-1/2			100 to 240	
L4006A2007					3		100 to 240	
L4006A2148					3		100 to 200	
L4006E1042						Yes	130 to 270	240
L4006E1067					3	Yes	130 to 270	
L4006E1091					3	Yes	130 to 270	
L4006E1125					3	Yes	100 to 200	
L4006H1004					1-1/2		100 to 240	240
L4006G1022					3		100 to 200	
L4008A1015					66		100 to 240	
L4008A1130					120		130 to 270	
L4008A1189					66		130 to 270	
L4008E1156					66	Yes	130 to 270	250
L4008E1305					66	Yes	100 to 240	240
L4008E1313					66	Yes	100 to 200	
L4008E1347				66	Yes	40 to 180		
L4006B1007	SPST - N.O. (make on rise)	Yes	1/2	1-1/2		100 to 240		
L4006B1155				3		100 to 240		
L6006A1004	SPDT	Yes	1/2			100 to 240		
L6006A1012		Yes	1/2	1-1/2		100 to 240		
L6006A1145					3		100 to 240	240
L6006A1244					3		100 to 240	
L6006C1018							65 to 200	
L6008A1093					66		-30 to 70	
L6008A1192					66		100 to 240	240
L6008A1242					66		100 to 200	

All mounting is universal horizontal or vertical mounting unless noted.

All Tradeline Aquastats® include heat-conductive compound.

(1) Product Numbering

400X=SPST, 600X=SPDT

X006=Thermowell Sense, X008=Remote Sense

A Make on Rise

B Break on Rise

D Break on Rise w/o Cover

E Make on Rise w/Manual Reset

G Two SPDT

H Make on Rise w/Strap-On Mount

(2) Capillary Length

If less than 3" then insulation depth of thermowell

(3) Electrical Ratings

A Millivolt: 0.25 A @ 0.25 to 12 Vdc; AFL: 8 A @ 120 Vac/5.1 A @ 240 Vac ALR: 48 A @ 120 Vac/30.6 A @ 240 Vac

D Millivolt: 0.25 A @ 0.25 to 12 Vdc; AFL: 1.3 A @ 240 Vac/8 A @ 120 Vac; ALR: 48 A @ 120 Vac/30.6 A @ 240 Vac

B AFL: 2.6 A @ 120 Vac/1.3 A @ 240 Vac; ALR: 15.6 A @ 120 Vac/7.8 A @ 240 Vac

H AFL: 8 A @ 120 Vac/1.3 A @ 240 Vac; ALR: 48 A @ 120 Vac/30.6 A @ 240 Vac

FUNCTIONS			NOTES	CROSS-REFERENCE
Differential Temperature (°F)	Electrical Ratings (Note 3)	Notes		OEM or Trade Product Number
5 Fixed	A			
5 to 30	A			L4080B, L4080D Families, L4006A1058, L4006A1827, L4006A2015
5 Fixed	A			L4006A2023
5 to 30	A			
2 Fixed	B			
5 to 30	A			
5 to 30	A			
5 to 30	A			
	A	Canada Only		
	A			L4006E1091, L4006E1109, L4006E1117, L4006E1125, L4006E1133
	A			
	D			
	D	Bracket for Strap-On Mounting		
7	H	Canada Only		
5 to 30	A			
5 to 30	A			
5 to 30	A			
	A			L4008E1040, L4008E1248, L4008E1321
	A			L4008E1271, L4008E1313
	A	Meets Certain State Specific Boiler Inspector Requirements		
	A			
5 Fixed	A			
5 to 30	A			L4006B1189, L4008B1163
5	A			Obs
5 to 30	A			L6006A1160, L6006A1269, L6006A1301, L6006A1327, L6006A1335
5 to 30	A	Horizontal Mount Only		L4006A1004
5 to 30	A			
5 to 30	A	Includes Surface Mount Using 1/4" NPT Female Threads or Surface Mount Through Base of Case		L6006C1034, L6006C1059
5 to 30	A			L6008A1010
5 to 30	A			
5 to 30	A			

For a complete cross-reference, visit www.customer.honeywell.com

Multi-Function Aquastat® Selection Guide

Product Number	FUEL		LOW LIMIT		HIGH LIMIT	
	Gas	Oil	Operating Range, Low Limit (°F)	Differential Temperature, Low Limit (°F)	Operating Range, High Limit (°F)	Differential Temperature, High Limit (°F)
L6081A1010	•	•	110 to 220		130 to 240	10 fixed
L6081A1036	•	•	110 to 220	10-25	130 to 240	10 fixed
L8148E1265	•				180 to 240	15 fixed
L8124E1016	•		110 to 220	10 to 25	130 to 240	10 fixed
L8148J1009	•				120 to 240	8 fixed
L7224U1002		•	110 to 220	10 to 25	130 to 240	5 to 20 adj.
L8124A1007		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124C1003		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124G1020		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124L1011		•	110 to 220	10 to 25	130 to 240	10 fixed
L8148A1017		•			140 to 240	8 fixed

* Replacement Sensors for the 7224U.

OS Number	Length
50001464-001	12"
50001464-004	36"
50001464-005	48"

FEATURES AND FUNCTIONS					CROSS-REFERENCE
Factory Stop (°F)	Switching Action	Anticipator Setting	Mounting	Notes	OEM Part Number
	SPDT		H		L6081A1069
	SPDT		H		L4081A1023, L4081A1148, L4081A1155, L4081A1171, L4081A1189, L4081A1197
	2 SPST: High Limit & Circulator	0.2 A	V		L8148E1158, L8148E1182, L8148E1216, L8148E1065
	2 SPST: High & Low Limit	0.2 A			
240	2 SPST: High Limit & Circulator	0.2 A	V/H		
	3 SPST: High and Low Limit, Circulator	0.1 A	V/H/F	Universal Oil, Digital Display and Settings, Used with Oil Burner Applications, EnviraCOM® Communications	All L8124A or C, L8148A or C, L7224A or C, L7248A or C, L8151A
		0.2 A	V		L8124A1015, L8124A1015, L8124A1049, L8124A1106, L8124A1114, L8124A1130, L8124A1155, L8124A1015
	2 SPST: High & Low Limit	0.2 A	H		L8124C1094, L8124C1102
	2 SPST: High & Low Limit	0.2 A	V		L8124G1004, L8124G1012
	2 SPST: High & Low Limit	0.2 A	H		L8124L1003, L8124L1029, L8124G1038, L8124G1046
240	2 SPST: High Limit & Circulator	0.2 A	H		L8148A1165, L8148A1157, L8148A1124, L8148A1090, L8148A1082, L8148A1009

For a complete cross-reference, visit www.customer.honeywell.com

Relays/Contactors/Transformers

Honeywell offers a complete range of relays, contactors and transformers for all your residential and commercial HVAC applications. All Honeywell products are designed to exceed safety and industry life cycle standards. In order to meet these criteria, a statistically significant sample of Honeywell products are tested to failure and to our stringent qualification requirements. This testing methodology enables Honeywell to verify that these products will exceed industry standards.



Honeywell

Relays

Honeywell's relays are available in multiple configurations for various applications. Honeywell's portfolio features general-purpose and heavy-duty relays, fan relays, time delay relays, heat sequencing relays and electric heat relays.

- General-Purpose and Heavy Duty switching relays — R4222, R8222, R8228, R4225, R8225 in SPST N.O., SPDT, DPST N.O., DPDT, DPDT (one power and one pilot duty) configurations
- Time Delay Relays — R24 for sequencing of heater banks and ST82 for delaying the indoor blower shutoff after compressor shutoff
- Fan Centers (relays and transformer combination) — R8285 and R8239 NEMA rated for control of line voltage fan motors and auxiliary circuits
- Electric Heating Relay — R841 for use with 2-wire thermostats to control baseboard, ceiling cable and duct heaters

R24 Electric Heat Sequencers

Applications:

- Solid-state positive temperature coefficient heater that provides inherent overheat protection at high voltages
 - 24 V control voltage
 - Operates under low-voltage conditions
 - Shock and vibration resistant
 - Feature quick-connect terminals and mount in any position
 - Replace most Klaxon and TOD brands
-

Contactors

Honeywell offers definite purpose contactors for heating, cooling and refrigeration applications.

- Available in 1, 2, 3 and 4 pole configurations
 - Multiple input voltage range from 24/120/208/240 configurations
 - Available in 25, 30, 40, 50, 60, 75, 90 Amp configurations
 - Meet ARI 780 and UL/CSA/CUR standards
-

Transformers

Honeywell offers National Electrical Manufacturers Association (NEMA) standard DC20-1992 and general-purpose transformers. These transformers are available with single or multiple input voltages and with foot, conduit and plate mounting options. Transformers with circuit breakers — that can be manually reset by pressing a button — are also available. In addition, Honeywell designs transformers for specific environmental requirements and with specialized termination options.

- AT20, AT40, AT72 and AT87 NEMA-rated transformers
- AT120, AT140, AT150, AT175 general-purpose transformers
- AT150F and AT175F circuit breaker transformers
- Available as universal 24 V transformers with 120/208/240 V input and foot, plate and conduit mountings

Relays/Transformers/Contactors Selection Guides

RELAYS							
Input Voltage/ Coil Voltage	Switching	Product Number	Full Load Amp Rating	Frequency	Dimensions (in.) H x W X D	Electrical Connections (main)	Special Features
24 Vac	DPST N.O.	R8228D1018	5.5	A	1-7/8 x 2-5/32 x 2-3/8	Q	
24 Vac	DPDT (1 P & 1 P Duty)	R8222V1003	12	A	1-7/8 x 2-5/32 x 2-3/8	Q	
	DPDT — Pilot Duty	R8222N1011		A	1-7/8 x 2-5/32 x 2-3/8	Q	Pilot Duty
	DPDT	R8222D1014		A	1-7/8 x 2-5/32 x 2-3/8	Q	
	DPDT	ST82D1004		A	2-7/32 x 2-1/16 x 2-9/16	Q	80 sec Shutoff Delay
	SPDT	R8222B1067		A	1-7/8 x 2-5/32 x 2-3/8	Q	
120 Vac	DPDT — Pilot Duty	R4222N1002		A	1-7/8 x 2-5/32 x 2-3/8	Q	
	DPDT	R4222D1013		A	1-7/8 x 2-5/32 x 2-3/8	Q	
	SPDT	R4222B1082		A	1-7/8 x 2-5/32 x 2-3/8	Q	
208/240 Vac	DPDT	R4222D1021		A	1-7/8 x 2-5/32 x 2-3/8	Q	
24 Vac	SPDT	R8225A1017		14	B	2-11/16 x 2-1/2 x 3-7/16	L
	DPST N.O.	R8225D1003	B		2-11/16 x 2-1/2 x 3-7/16	L	
120 Vac	SPDT, 1 N.O., 1 N.C.	R4225A1008	B		2-11/16 x 2-1/2 x 3-7/16	L	
24 Vac	SPDT	R8228B1012	18	A	1-7/8 x 2-5/32 x 2-3/8	Q	
	SPST N.O.	R8228A1014		A	1-7/8 x 2-5/32 x 2-3/8	Q	
ELECTRIC HEAT RELAYS							
24 Vac	DPST	R8229A1005	7	B	2-3/16 x 2-3/32 x 2-1/4	CHS	
		R8229A1021		B	2-3/16 x 2-3/32 x 2-1/4	CHS	Extra Mounting Hardware
24 Vac	SPST	R841D1036	14	A	3-7/8 x 2-13/16 x 1-1/2	L	18 A Resistive @ 120/208/240 Vac; Requires Transformer; Canada — Replaces R841D1028
208/240 Vac	SPST	R841C1169		A	3-7/8 x 2-13/16 x 1-1/2	L	18 A Resistive @ 120/208/240 Vac; Integral Transformer; Canada — Replaces R841C1029
240 Vac	SPST	R841E1068		A	3-7/8 x 2-13/16 x 1-1/2	L	22 A Resistive @120/208/240 Vac; Dual Load/Integral Transformer
347 Vac	SPST	R841C1144		A	3-7/8 x 2-13/16 x 1-1/2	L	18 A resistive @120/208/240 Vac; Integral Transformer; Canada
600 Vac	SPST	R841C1151		A	3-7/8 x 2-13/16 x 1-1/2	L	18 A resistive @120/208/240 Vac; Integral Transformer; Canada
ELECTRIC FURNACE SEQUENCER							
24 Vac		R8330D1039	7.2	B	3-1/16 x 4-13/16 x 2-11/32	T	
ELECTRIC HEAT CONTACTOR							
24 Vac	DPST	R8246A1038	30		2-3/16 x 2-1/4 x 3-5/16	Q, S	

Frequency: A — 60 Hz/50 Hz; B — 60 Hz, C — 50 Hz

Approvals: UL, CSA

Temp Rating: -20° F to +150° F; 115° F max for R8225

Connectors: CHS — Combination Head Screw; L — Leadwires; Q — Quick Connect; T — Terminals

SPST: Single Pole Single Throw

DPST: Double Pole Single Throw

DPDT: Double Pole Double Throw

SPDT: Single Pole Double Throw

FAN CENTERS									
Electrical Ratings (VA)	Electrical Ratings (Input Voltage)	Switching	Product Number	NEMA Rated	Dimensions (in.) H x W X D	Main Connections	Secondary Connections	Frequency	Special Features
40 VA	120 Vac	DPDT	R8239B1043	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	Super Tradeline*
		DPST	R8239D1007	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	
		DPST (1 Power, 1 Pilot)	R8239D1015	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	Tradeline
		SPDT	R8239A1052	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	Tradeline
	208/240 Vac	SPDT	R8239A1003	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	
50 VA	120/208/240 Vac	DPDT	R8239B1076	Yes	4-1/2 x 4-3/16 x 3-3/32	L	L	A	Super Tradeline
40 VA	120 Vac	SPDT	R8285A1048	No	4-3/16 x 4-1/2 x 2-13/16	L	L	B	Tradeline
	120/208/240 Vac	DPDT	R8285B1053	No	4-3/16 x 4-1/2 x 2-13/16	L	L	B	Tradeline
50 VA	120 Vac	SPDT	R8285A1006	No	4-3/16 x 4-1/2 x 2-13/16	L	L	B	
50 VA	120 Vac	DPDT	R8285D5001	No	4-3/16 x 4-1/2 x 2-13/16	L	L	B	

Frequency: A — 60 Hz/50 Hz; B — 60 Hz
 Approvals: UL, CSA
 Temp Rating: -20° F to 105° F
 Connectors: L — Leadwires
 Mounting: Standard 4 x 4 in. junction box
 Super Tradeline models include extra hardware.

SPST: Single Pole Single Throw
 DPST: Double Pole Single Throw
 DPDT: Double Pole Double Throw
 SPDT: Single Pole Double Throw

ELECTRIC HEAT SEQUENCERS													
	Model #	Switches	Timings	Timings — On					Timings — Off				
				M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10
	R24AA1008	1	1	1-20						40-110			
	R24AA3004	1	1			30-90					1-30		
	R24BA1006	2	1	1-20	1-20					40-110	40-110		
	R24BA3002	2	1			30-90	30-90				1-30	1-30	
	R24CB4007	3	2	1-110	1-110	1-110				1-110	1-110	1-110	
	R24DB4005	4	2	1-110	1-110	1-110	1-110			1-110	1-110	1-110	1-110
	R24ED5007	5	4	1-160	1-160	1-160	1-160	1-160		1-160	1-160	1-160	1-160
Canada	R24AA3421	1	1	1-20						1-50			
Canada	R24AA3422	1	1	15-45						1-30			
Canada	R24AA3423	1	1	25-55						15-45			
Canada	R24AA3424	1	1	30-75						1-40			
Canada	R24AA3425	1	1	40-90						1-30			
Canada	R24BB3426	2	2	1-20	30-90					40-90	1-30		
Canada	R24BB3427	2	2	1-160	1-160					1-160	1-160		
Canada	R24AA3429	1	1	15-35						25-55			
Canada	R24BB3436	2	2	1-20	30-45					45-110	1-30		
Canada	R24AA3437	1	1	1-110						1-110			

HEAT PUMP — AIR HANDLER MODEL

Model #	Switches	Timings	Heat	Cool
R24AA2006	1	1	1-60	75-95

Temperature: -50° F to 165° F
 Terminations: Solder or screw type 1/4" quick connect
 Ratings: Estimate — 25 A resistive and 14 A inductive at 120 Vac
 Agency: UL/CSA

SPST: Single Pole Single Throw
 DPST: Double Pole Single Throw
 DPDT: Double Pole Double Throw
 SPDT: Single Pole Double Throw

Table Notes:

- M1-M2 and M3-M4 are always first switches to turn on and last to turn off. All other switches are random on and random off.
 - R24ED5007 switch contacts designated F1-F2 instead of M1-M2.
 - R24BB3428 is Double Pole Double Throw model.
 - R24AA2006 is a Single Pole Double Throw model for heat pump applications.
 - These contacts switch simultaneously.
- On Time: Elapsed time (min. to max.) to make contact after heater is energized.
 Off Time: Elapsed time (min. to max.) to break contact after heater is de energized.

Relays/Contactors/Transformers Selection Guides

ECONOMY CONTACTORS									
Poles	Contact Ratings (AFL @ 240, 277, 480, 600 Vac)	Input Voltage/Coil Voltage	Product Number	Dimensions (in.) H x W x D	Main Connections	Coil Connections	Contact Ratings (Resistive @ 240, 277, 480, 600 Vac)	Special Features	
1 With Shunt	30	24 Vac	DP1030A1000	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	48 A		
2	30	24 Vac	DP2030A1003	3-1/4 x 3-5/8 x 3-7/8	CHS	Q	48 A		
		120 Vac	DP2030B1002	2-7/32 x 3-5/16 x 2-5/32	CHS	Q	40 A		
		208/240 Vac	DP2030C1001	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	40 A		
	40	24 Vac	DP2040A1002	2-3/8 x 3-5/16 x 2	LC	Q	50 A		
		120 Vac	DP2040B1001	2-3/8 x 3-5/16 x 2	LC	Q	50 A		
		208/240 Vac	DP2040C1000	2-3/8 x 3-5/16 x 2	LC	Q	50 A		
POWERPRO CONTACTORS — ARI 780/790 RATED									
1 With Shunt	25	24 Vac	DP1025A5005	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	30 A		
	30	24 Vac	DP1030A5013	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	48 A		
	40	24 Vac	DP1040A5004	2-23/64 x 2-1/2 x 3-5/16	LC	Q	50 A		
2	20	24 Vac	DP2020A5021	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	30 A		
		120 Vac	DP2020B5038	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	30 A		
	30	24 Vac	DP2030A5004	3-1/4 x 3-5/8 x 3-13/16	CHS	Q	48 A		
		24 Vac	DP2030A5012	3-1/4 x 3-5/8 x 3-13/16	CHS	Q	48 A	Extra Mounting HDW	
		120 Vac	DP2030B5003	2-7/32 x 3-5/16 x 2-5/32	CHS	Q	48 A		
		120 Vac	DP2030B5011	2-5/16 x 3-5/16 x 2-5/32	CHS	Q	48 A	Extra Mounting HDW	
		208/240 Vac	DP2030C5002	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	48 A		
		208/240 Vac	DP2030C5010	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	48 A	Extra Mounting HDW	
	40	277 Vac	DP2030D5001	2-7/32 x 2-1/2 x 3-5/16	CHS	Q	48 A		
		24 Vac	DP2040A5003	2-23/64 x 3-3/16 x 1-15/16	LC	Q	50 A		
		120 Vac	DP2040B5002	2-23/64 x 3-3/16 x 1-15/16	LC	Q	50 A		
	3	30	208/240 Vac	DP2040C5001	2-23/64 x 3-3/16 x 1-15/16	LC	Q	50 A	
24 Vac			DP3030A5003	3-7/64 x 3-5/8 x 2-13/32	CHS	Q, S	40 A		
120 Vac			DP3030B5002	3-7/64 x 3-5/8 x 2-13/32	CHS	Q, S	40 A		
40		208/240 Vac	DP3030C5001	3-7/64 x 3-5/8 x 2-13/32	CHS	Q, S	40 A		
		24 Vac	DP3040A5002	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	50 A		
		120 Vac	DP3040B5001	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	50 A		
50		208/240 Vac	DP3040C5000	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	50 A		
		24 Vac	DP3050A5001	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	63 A		
		120 Vac	DP3050B5000	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	63 A		
		208/240 Vac	DP3050C5009	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	63 A		
		60	24 Vac	DP3060A5000	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	75 A	
			120 Vac	DP3060B5009	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	75 A	
208/240 Vac			DP3060C5008	3-7/64 x 3-5/8 x 2-13/32	LC	Q, S	75 A		
75		24 Vac	DP3075A5016	4-7/16 x 5 x 3-3/4	LC	Q, S	95 A		
		120 Vac	DP3075B5015	4-7/16 x 5 x 3-3/4	LC	Q, S	95 A		
		208/240 Vac	DP3075C5014	4-7/16 x 5 x 3-3/4	LC	Q, S	95 A		
90		120 Vac	DP3090B5006	4-7/16 x 5 x 3-3/4	LC	Q, S	120 A		
		208/240 Vac	DP3090C5005	4-7/16 x 5 x 3-3/4	LC	Q, S	120 A		
4		40	24 Vac	DP4040A5001	2-5/8 x 3-3/4 x 3-7/64	LC	Q, S	50 A	
			120 Vac	DP4040B5000	2-5/8 x 3-3/4 x 3-7/64	LC	Q, S	50 A	
			208/240 Vac	DP4040C5009	2-5/8 x 3-3/4 x 3-7/64	LC	Q, S	50 A	
ELECTRIC HEAT CONTACTOR									
2		30	24 Vac	R8246A1038	2-3/16 x 2-5/16 x 3-5/16	Q, S	TCS, Q	48 A @ 240 Vac, 277 Vac	First Pole Resistive Only, Second Pole Resistive/Inductive Combined; ARI 780/790 Rated

Connectors: BHS — Binding Head Screw Q — Quick Connect SS — Sems Screw
 CHS — #10-32 Combination Head Screw S — #6 Screw TCS — Terminal Clamp Screw LC — Lug Connector

Temp Rating: -4° F to 149° F

Approvals: CSA, UL

ARI -780: 500,000 cycle mechanical life; 200,000 cycle electrical life; 10,000 cycle recycle life

TRANSFORMERS

Electrical Ratings (VA)	Electrical Ratings (Input Voltage)	Product Number	NEMA Rated	Mounting	Main Connections	Secondary Connections	Frequency	Dimensions (in.) H x W x D	Special Features
19	120 Vac	AT20A1123	Yes	F	L	L	A	2 x 2-1/4 x 1-7/8	
40	120 Vac	AT40A1162	Yes	F	L	L	A	2-3/32 x 2-5/8 x 2-3/16	
		AT72D1006	Yes	P	L	S	A	3-7/32 x 2-7/32 x (1-1/16 into x 2-in. above plate)	
		AT72D1089	Yes	F	L	S	A	3-7/32 x 2-7/32 x 3-1/16	
		AT72D1188	Yes	P	L	L	A	3-7/32 x 2-7/32 x 2-15/16	
		AT72D1683	Yes	M	L	S	A	3-7/32 x 2-7/32 x 3-1/16	
	AT72D1956	Yes	M	L	L	A	3-7/32 x 2-7/32 x 3-1/16	Canada	
	208/240 Vac	AT72D1691	Yes	M	L	S	A	3-7/32 x 2-7/32 x 3-1/16	
		AT72D1733	Yes	M	L	S	A	3-7/32 x 2-7/32 x 3-1/16	Canada
48	277 Vac	AT87A1189	Yes	F	L	L	A	2-15/16 x 2-7/32 x 2-1/4	Energy Limiting Overload Protection
	480 Vac	AT87A1155	Yes	F	L	L	A	2-15/16 x 2-7/32 x 2-1/4	Energy Limiting Overload Protection
50	120/208/240 Vac	AT87A1106	Yes	M	L	S	A	2-15/16 x 2-7/32 x 2-1/4	Built-In Protection; Primary Winding Burnout
20	120 Vac	AT120B1028	No	F	L	L	B	1-11/16 x 3-3/16 x 1-3/4	Metal End Bells
	120/208/240 Vac	AT120A1004	No	M	L	S	B	2-7/8 x 1-7/8 x 2-15/16	Metal End Bells
	120 Vac	AT120B1028	No	F					
40	120 Vac	AT140A1000	No	M	L	S	B	3-3/16 x 2-3/8 x 3-1/8	Metal End Bells
		AT140B1206	No	F	L	L	B	1-11/16 x 3-1/2 x 1-3/4	Plastic End Caps
	120/208/240 Vac	AT140A1018	No	M	L	S	B	3-3/16 x 2-3/8 x 3-1/8	Metal End Bells
		AT140B1214	No	F	L	L	B	1-11/16 x 3-1/2 x 1-3/4	Plastic End Caps
	208/240 Vac	AT140B1024	No	F	L, Q	L	B	1-11/16 x 3-1/2 x 1-3/4	
50	120/208/240 Vac	AT150A1007	No	M	L	S	B	1-11/16 x 3-3/16 x 1-3/4	Metal End Bells
		AT150F1022	No	M	L	L	B	3 3/16 x 2-3/16 x 3-5/8	Button for Resetting Circuit Breaker & Metal End Bells
	208/277/480 Vac	AT150F1030	No	M	L	L	B	3-3/16 x 2-3/16 x 3-5/8	Button for Resetting Circuit Breaker & Metal End Bells
	277 Vac	AT150B1252	No	F	L, Q	L, Q	A	1-11/16 x 3-1/2 x 1-3/4	Plastic End Caps
75	120/208/240 Vac	AT175A1008	No	M	L	S	B	3-3/16 x 2-3/8 x 3-5/8	Metal End Bells
		AT175F1023	No	M	L	L	B	3-3/16 x 2-3/16 x 3-15/16	Button for Resetting Circuit Breaker & Metal End Bells
	208/277/480 Vac	AT175F1031	No	M	L	L	B	3-3/16 x 2-3/16 x 3-15/16	Button for Resetting Circuit Breaker & Metal End Bells
	120 Vac	AT88A1005	No	F	L	L	A	2-15/16 x 2-3/16 x 3-5/16	Internally Fused Secondary for Overload Protection
	208/240 Vac	AT88A1021	No	F	L	L	A	2-15/16 x 2-3/16 x 3-5/16	Internally Fused Secondary for Overload Protection
	480 Vac	AT88A1047	No	F	L	L	A	2-15/16 x 2-3/16 x 3-5/16	Internally Fused Secondary for Overload Protection

Frequency: A — 60 Hz/50 Hz B — 60 Hz;
 Mounting: C — Conduit Clamps; F — Foot; P — Pilate; R — Channel Frame
 Connections: L — Leadwires (9" to 13"); Q — Quick Connects; S — Screw Terminals
 Approvals: UL, CSA

For a complete cross-reference, visit www.customer.honeywell.com

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