



Honeywell

Honeywell Controls and Maxitrol Regulators



AT72D1683

Code#	Description	Model#
-------	-------------	--------

Nema Standard Transformer

Power 24VAC Control Systems including thermostats, gas valves and relays. Combination plate, foot or knockout mtg. 120 V Primary with 9" lead wires. 24V Secondary with 2 screw terminals. 40VA output. Marked: Nema Type D.

440-0500	Nema Standard Transformer	AT72D1683
----------	---------------------------	-----------



AT140A1000
AT140A1018

General Purpose Transformer

Intended for heating/cooling systems with predictable uniform loads. Multi-Mount. 120V Primary, 24V Secondary. 40VA output.

440-0525	General Purpose Transformer	AT140A1000
----------	-----------------------------	------------



AT150A1007

General Purpose Transformer

Same as above except 120/208/240V Primary

440-0550	General Purpose Transformer	AT140A1018
----------	-----------------------------	------------



AT175A1008

General Purpose Transformer

Foot mounted, plate mounted, clamp mounted or panel mounted 120/208/240 Vac Transformer with 9 in. leadwires and metal end bells. Provide power to 24 Vac circuits in heating/cooling control systems. Intended for use in systems with predictable, uniform loads. Can be used in any application that does not exceed the listed ratings.

440-0560	General Purpose Transformer	AT150A1007
----------	-----------------------------	------------

General Purpose Transformer

Foot mounted 120/208/240 Vac Transformer with 9 in. lead wires and metal end bells. Provide power to 24 Vac circuits in heating/cooling control systems. Intended for use in systems with predictable, uniform loads. Can be used in any application that does not exceed the listed ratings.

440-0575	General Purpose Transformer	AT175A1008
----------	-----------------------------	------------



C544A1463

Cadium Sulfide Flame Detector

Used with Protectorelay oil primary controls such as R4166, R4184, R8182, R8184, R8185, and R8404 with Plug-in cell 130367 and 60 inch leads.

440-0700	Cadium Sulfide Flame Detector	C554A1463
----------	-------------------------------	-----------

Replacement Cadium Cell

440-4500	Replacement Cadium Cell	130367
----------	-------------------------	--------



Honeywell



L4006A1678



L4006E1067



C7089U1006



L4064B1451
L4064B1469



L6006C1018

Code#	Description	Model#
-------	-------------	--------

Aquastat Controller - 100 F to 240 F

For high or low limit control. Spst switching, breaks on temperature rise. Range: 100 F to 240 F. Adj. Differential: 5 F to 30 F. Vertical or horizontal mounting. With well adapter; less immersion well. With tube of heat conductive compound. 1-1/2 or 3 inch insulation depth. Electrical Ratings: Full Load - 8.0 at 120 Vac, 5.1 at 240 Vac. Locked Rotor - 48.0 at 120 Vac, 30.6 at 240 Vac. Inductive - 0.25 at 1/4 to 12 Vdc.

440-0800	Aquastat Controller - 100 F to 240 F	L4006A1678
----------	--------------------------------------	------------

Aquastat Controller - 130 F to 270 F

Aquastat® Controllers are immersion type devices for limiting or regulating the temperature of liquids in boilers, storage tanks, and other applications where temperature control is required. High Limit; Manual Reset Aquastat Controller with 130 F to 270 F operating temperature. Electrical Ratings (AFL) 8A @ 120 Vac, Electrical Ratings (AFL) 1.3A @ 240 Vac, (ALR) 48A @ 120 Vac, (ALR) 30.6A @ 240 Vac.

440-0850	Aquastat Controller - 130 F to 270 F	L4006E1067
----------	--------------------------------------	------------

Remote Outdoor Sensor

Remote outdoor temperature sensor, when installed, the current outdoor temperature is displayed. Also can be used to manage dual fuel and lock-out expensive auxiliary heat in heat pump applications. Includes 60 in. leadwires.

440-0725	Remote Outdoor Sensor	C7089U1006
----------	-----------------------	------------

Combination Fan and Limit Control

11-1/2 inch insertion - 3/4 inch diameter. Adjustable fan differential with manual fan switch. Rigid mounting bracket (allows variable insertion length). Limit stop set at 200 F; Limit adj. 100 to 250 F; Universal adapters for 5/8, 3/4, 1 in. dia. elements.

440-0900	Combination Fan and Limit Control	L4064B1451
----------	-----------------------------------	------------

Combination Fan and Limit Control

5 inch insertion - 3/4 inch diameter. Adjustable fan differential with manual fan switch. Rigid mounting bracket (allows variable insertion length). Limit stop set at 200 F; Limit adj. 100 to 250 F

440-0950	Combination Fan and Limit Control	L4064B1469
----------	-----------------------------------	------------

Surface Aquastat

For circulator, low limit, and high limit control. Spdt Switching. Range: 65 F to 200 F; Adj. differential: 5 F to 30 F; Vertical or horizontal strap-on mounting

440-1060	Surface Aquastat	L6006C1018
----------	------------------	------------



Honeywell



L8148J1009



Q313A1170



Q314A4586



Q340A



Q539A1147

Code#	Description	Model#
-------	-------------	--------

Aquastat Relay

Combines high-limit controller with switching relay control for burner and water circulator. Vertical or horizontal mounting. With well adapter and heat conductive compound. Control circuit: 24V, 60 Hz. Burner circuit: 24V, 60Hz or millivolt. Circulator circuit: 120 V, 60 Hz. Zone valve powers: 24 V, 60 Hz.; Includes manual ON-AUTO Switch. Electrical Ratings: Full Load - 7.4 at 120V, 3.7 at 240V; Locked Rotor - 44.4 at 120V, 22.7 at 240V

440-1100	Aquastat Relay	L8148J1009
----------	----------------	------------

Powerpile Generator

Direct replacement for PG9 millivolt cartridge or Honeywell powerpile generators; 750 millivolt; 35" lead length

440-1400	Powerpile Generator	Q313A1170
----------	---------------------	-----------

Target Type Pilot Burner

"B" type mounting bracket. Straight tip. Includes both .018" diameter natural gas orifice and .010" diameter LP gas orifice. 1/4" CC inlet fitting. Includes special mounting bracket with screws.

440-1450	Target type pilot burner	Q314A4586
----------	--------------------------	-----------

Universal Thermocouple

30 millivolt, adapter to fit any pilot burner, faster installation.

440-1500	18 inch lead	Q340A1066
440-1510	24 inch lead	Q340A1074
440-1520	30 inch lead	Q340A1082
440-1530	36 inch lead	Q340A1090
440-1540	48 inch lead	Q340A1108

Subbase for T87F (Oil)

Independent heat cool circuits. System switching: Cool - Off - Heat. Fan switch: On - auto. Terminals: (RC, W, Y, G, RH).

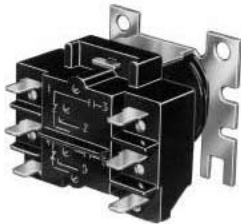
440-1655	Subbase for T87F (Oil)	Q539A1147
----------	------------------------	-----------



Honeywell



R8184G4009



R8222D1014



R8225A1017

R8239A1052
R8239B1043

R82851048

Code#	Description	Model#
-------	-------------	--------

Protectorelay Oil Burner Control

Intermittent ignition. 120 V, 60 Hz primary, 24 Volt Control Circuit. Safety switch time: 45 seconds. Contact ratings Full load - 7.4 at 120 Vac, 3.7 at 240 Vac. Locked rotor - 44.4 at 120 Vac, 22.2 at 240 Vac

440-2000	Protectorelay Oil Burner Control	R8184G4009
----------	----------------------------------	------------

General Purpose Switching Relay

Provide switching for refrigeration & A/C equipment. Coil voltage: 24V. Switching: DPDT Power rated. Double quick connect coil terminals

440-2150	General Purpose switching relay	R8222D1014
----------	---------------------------------	------------

Fan Relay

Has 16 amp rating. Includes flush mounting bracket for complete mounting versatility. Control Circuit; 24 Volt, 60 Hertz. Switching: Spdt - 1 HP. Mounting: 1/2 inch. Conduit spud

440-2200	Fan Relay	R8225A1017
----------	-----------	------------

Fan Relay Center

Control Circuit - 24V, 60Hz. Switching: Spdt - 3/4 HP. 13.8 AFL, 82.8 ALR at 120 Vac. With 4 x 4 plate for junction box mounting. Transformer: 120 Vac primary, 26.5 V secondary - 40 VA

440-2250	Fan Relay Center	R8239A1052
----------	------------------	------------

Fan Relay Center

Control Circuit - 24V, 60 Hz. Switching Dpdt - 3/4 HP. Transformer - 120 Vac primary, 26.5 V secondary - 40VA. With 4 x 4 plate for junction box mounting. Includes screw terminals on terminal board - leadwires for line connections.

440-2255	Fan Relay Center	R8239B1043
----------	------------------	------------

Control Center

Control Center provides low voltage control of line voltage fan motors and auxillary circuits in heating, cooling, or air conditioning systems. Includes R8222B. For single - or two- speed fan. Switching: Spdt - 3/4 HP

440-2257	Control Center	R8285A1048
----------	----------------	------------



Honeywell



RA89A1074
RA832A1066



RA116A1055



S483B1002



S8610U3009



S8910U1000

Code#	Description	Model#
-------	-------------	--------

Switching Relay

2 wire, low volt control circuit, 120V integral transformer, SPST switching

440-2350	Switching Relay	RA89A1074
----------	-----------------	-----------

Switching Relay

2-wire, low volt control circuit. Dpst switching and Spst switching of an auxiliary low voltage or powerpile load. 120 V, 60 Hz transformer primary.

440-2600	Switching Relay	RA832A1066
----------	-----------------	------------

Protectorelay Controller

120 Vac, Intermittent ignition. 75 second safety switch timing. Used with 2 or 3 wire (series 10) 24 volt room thermostat or line volt controller. Locks out on safety if flame failure. Maximum insertion: 5-1/2 inches. Manual trip safety switch.

440-2450	Protectorelay Controller	RA116A1055
----------	--------------------------	------------

Winter Watchman

Used as a freeze warning device. Completes circuit to household lamp on temperature fail, indicating failure of heating plant. Plugs directly into wall outlet, lamp plugs into receptacle.

440-2630	Winter Watchman	S483B1002
----------	-----------------	-----------

Universal Intermittent Pilot Module

One or Two Rod Intermittent Pilot Control with continuous retry trial time with configurable lockout timing of 15 or 90 seconds and configurable prepurge of 30 seconds or no prepurge. Field service replacement for most Honeywell, Robertshaw, Johnson, and UTEC (HSC) Intermittent Pilot Ignition Modules. Provides electronic control of most intermittent pilot ignition systems used on gas-fired furnaces, boilers, and other heating appliances.

Replaces:	440-2670	Universal Intermittent Pilot Module	S8610U1003
	440-2671	Universal Intermittent Pilot Module	S8610U3009

Universal Hot Surface Ignition Module

Selectable number of ignition trials (1 or 3); Selectable length trial for ignition (4 or 7 seconds); Universal flame sensing (single or dual rod); LED signaling system lockout, weak flame signal, or another internal error.

440-2672	Universal Hot Surface Ignition Module	S8910U1000
----------	---------------------------------------	------------



Honeywell



T87K1007
T87N1000

Code#	Description	Model#
-------	-------------	--------

Round® Mercury Free Thermostat

The Round® T87K and T87N thermostats provide electronic control of 24Vac heating and cooling systems with the classic twist to set dial.

Features:

- Mercury Free
- Classic Styling
- Premier White®
- Separate temperature setting and thermometer
- The T87K heat only works with 2 or 3 wire heat only systems
- The Easy-To-See™ has enlarged scale and raised numbers--plus it click at every 2°F change

The Round® Mercury Free Thermostat with manual changeover and R,W,Y terminals for single stage heating systems.

440-2712	Single stage heating systems	T87K1007
----------	------------------------------	----------

The Round® Mercury Free Thermostat with manual changeover and R, Rc, W, Y, G, O, B terminals for single stage heating and cooling systems

440-2715	Single stage heating and cooling systems	T87N1000
----------	--	----------



T822D

Thermostat 24V

Adjust. Heat Anticipator 0.18 A to 0.8 A. Spst mercury switch. Temperature range 55 F to 95 F

440-2900	Thermostat 24V	T822D-1024
----------	----------------	------------

Thermostat 24 V, Low Range

Adjust. Heat Anticipator 0.18 A to 0.8 A. Spst mercury switch. Temperature range 35 F to 65 F

440-2910	Thermostat 24 V, Low Range	T822D-1685
----------	----------------------------	------------



T834C2499

Thermostat 24V, Premier White

For standard heating-cooling systems. Heat anticipation provided by adjustable heater in series. Terminals: R,G,Y,W,1,2,0,R. Fan switch: On-Auto, System: Heat Off Cool. Temp Range: 55° F to 95° F

440-2912	Thermostat 24V Premier White	T834C-2499
----------	------------------------------	------------



Honeywell



T8400C1024



T8600D2028



TH5110D1006



TH8110U1003



TH8320U1008

Code#	Description	Model#
-------	-------------	--------

Standard Electronic Thermostat		
For 24 VAC gas or oil systems, 1 heat/1 cool powerstealing, no batteries needed-memory chip maintains power. Non-programmable. Premier White		
440-2970	Standard Electronic Thermostat	T8400C1024

Chronotherm IV Programmable Thermostat		
Taupe. Gas, Oil, or Electric 24 VAC Systems. Seven day program, power stealing, 1 heating and 1 cooling stage. System: Heat-Off-Cool-Auto. Fan: On-Auto. Terminals: Y,W,G,R,RC,OT,OT,O,B Temp Range: Heat 40° F to 90° F Cool 45° F to 99° F		
440-2979	Chronotherm IV Programmable	T8600D2028

FocusPRO™ non-programmable digital thermostat		
The FocusPRO™ non-programmable digital thermostat provides electronic control of 24 Vac conventional and heat pump systems or 750 mV heating systems. Premier White® Heating & Cooling Thermostat with R, Rc, C, W (O/B), Y, G terminals.		
440-2985	FocusPRO™ non-programmable digital thermostat	TH5110D1006

Premier White® Universal Programmable Thermostat		
The TH8110U Universal Programmable Thermostats provide electronic control of 24 Vac heating and cooling systems or 750 mV heating system. Thermostat with automatic/manual changeover, up to 1 Heat/1 Cool stages and R,RC,C,W,(O/B),Y,G,S1,S2 terminals for heating and cooling systems.		
440-2990	Universal Programmable Thermostat	TH8110U1003

Premier White® Universal Programmable Thermostat		
The TH8320U Touch Screen Universal Programmable Thermostats provide electronic control of 24 Vac heating and cooling systems or 750 mV heating system. Thermostat with automatic/manual changeover and up to 3 Heat/2 Cool stages for heating and cooling systems.		
440-2995	Universal Programmable Thermostat	TH8320U1008



Honeywell



TS86A



TS86A



TG511



VR8300A4516



VR8345M4302

Model#	Description	Code#
VisionPRO Programmable Thermostat		
Automatic or Manual changeover and up to 4 heat/2 cool stages for heating and cooling systems. The TH9421U touch screen universal programmable thermostat provides electronic control of 24 Vac heating and cooling systems of 750 mV heating systems in addition to humidification dehumidification and ventilation.		
440-4000	Programmable Thermostat	YTH9421C1002

Powerpile Heating Thermostat		
Includes wallplate for 250/500 MV or 750 MV powerpile systems; Range: 40-90 F; Fixed anticipator for 750 MV application; Dust proof mercury switch, spst		
440-3000	Powerpile Heating Thermostat	TS86A1371

Universal Thermostat Guard		
Easy to install solid and ring bases. Tumbler lock with 2 keys. Mount in vertical or horizontal position. Clear plastic cover, 4 mounting screws and wall anchors included		
440-2980	Universal Thermostat Guard	TG511A1000

24 Volt Combination Gas Control		
For Standing Pilot Applications; Natural Gas (LP kit included); 200 CFH Capacity @ 1" W.C. Press. Drop; Straight Pattern Body, (3/4" Inlet, Outlet); Includes 2 (3/4 x 1/2) reducing bushings and Q340(36") thermocouple		
440-3175	24 Volt Combination Gas Control	VR8300A4516

Universal Electronic Ignition Gas Valve		
Replaces virtually all standard opening IP, HSI or DSI valves. 415,000 BTU max reg, Natural Gas (LP Kit included) Uses 2 simple adaptors to convert between IP and HSI/DSI applications. 1/2 x 3/4.		
440-3210	Universal Electronic Ignition Gas Valve	VR8345M430



Honeywell



V8043A1029



V8043E1012



V8043F1028



V8043F1036



V8043F1051
V8043F1101



121371A
121371B



40003916-026
40003916-048



802360JA

Code#	Description	Mfg#
-------	-------------	------

V8043 Zone Valves

ON-OFF Low Voltage Valves for Controlling Flow of hot or cold water. Consists of actuator motor and valve assembly with optional end switch for sequencing auxiliary equipment. Straight through valve body. Water tight design allows replacement of powerhead without draining system.

Flow capacity rating: 3.5 GPM
Electrical: 24V, 50/60 Hz

440-3696	3/4" Sweat Zone Valve 18" lead wire connectors without end switch	V8043A1029
440-3698	3/4" Sweat Zone Valve 18" lead wire connectors with end switch	V8043E1012
440-3700	1/2" Sweat Zone Valve Terminal Board Connector with end switch	V8043F1028
440-3710	3/4" Sweat Zone Valve Terminal Board Connector with end switch	V8043F1036
440-3720	1" Sweat Zone Valve Terminal Board Connector with end switch	V8043F1051
440-3740	1" Sweat Zone Valve (high capacity) Terminal Board Connector with end switch	V8043F1101
440-3910	Tradeline Hydronic Builder Pak Includes: T822F1008 Thermostat, mercury switch, 24V, 50/60 Hz V8043E-1012 Motorized valve, 2-wire low voltage control circuit, 3/4 inch cc sweat fittings, with end switch.	Y496A1025
440-4350	Immersible Well 1/2	121371A
440-4400	Immersible Well 3/4	121371B
440-4600	Powerhead Assembly for V8043E 24V, 50/60 Hz, 2 Way with lead wire connectors	40003916-026
440-4650	Powerhead Assembly for V8043F 24V, 50/60 Hz, 2 Way with end switch terminal board	40003916-048
440-4655	Powerhead Conversion Kit 24V, 50/60 Hz, 2 Way updates old style valves to water tight, and accepts new style powerheads	40003918-006
440-4800	Zone Valve Motor, 24 V, 50/60 Hz , 0.32A	802360JA


MAXITROL


325 Series Regulator

Code#	Description	Mfg#
-------	-------------	------

Maxitrol Gas Pressure Regulators

Type 325L

Line Pressure Regulators. Lever acting design with vent limiter, inlet pressures to 2 PSI, outlet pressures : 7-11" W.C. for use on natural gas.

440-6150	1/2" 2-psi Gas Regulator w/ 1209 Plug & R325C10-711 Spring Capacities to: 204 CFH	325-3L-44
440-6152	1/2" 2-psi Gas Regulator w/ 12A39 Plug & R325E10-711 Spring Capacities to: 476 CFH	325-5AL-44
440-6155	3/4" 2-psi Gas Regulator w/ 12A39 Plug & R325E10-711 Spring Capacities to: 476 CFH	325-5AL
440-6157	1-1/4" 2-psi Gas Regulator w/ KVOP-4 Vent Damper R8110-711 Spring Capacities to: 972 CFH	325-7L-1010

Type 325

Lever Acting Design with vent plug for use on natural gas systems above 2 PSI and all LP applications. Inlet pressures to 10 PSI, outlet pressures: 4" W.C. to 14" W.C.

440-6140	1/2" 10-psi Gas Regulator w/ 12A39 Plug & R325C10-412 Spring Capacities to: 204 CFH	325-3-44P
440-6142	1/2" 10-psi Gas Regulator w/ 12A39 Plug & R325E10-412 Spring Capacities to: 476 CFH	325-5A-44
440-6145	3/4" 10-psi Gas Regulator w/ 12A39 Plug & R325E10-412 Spring Capacities to: 476 CFH	325-5A-66

Capacities based on 1/2 PSI pressure drop and 2 PSI inlet pressure.

Type RS

Balanced Valve Design with vent plug. Inlet pressures to 5 PSI, outlet pressures: 3" W.C. to 8" W.C.

440-6158	1/2" 5-psi Gas Regulator w/ 12A39 Plug & R400B10-38 Spring Capacities to: 300 CFH	R400S-44
440-6160	3/4" 5-psi Gas Regulator w/ 12A09 Plug & R5210-38 Spring Capacities to: 800 CFH	R500S-66
440-6170	1" 5-psi Gas Regulator w/ 12A09 Plug & R5310-38 Spring Capacities to: 1400 CFH	R600S-88

Capacities based on 4" W.C. pressure drop inlet pressure to 5 PSI.



R & RS Series Regulator



ESBE

Code#	Description	Mfg#
-------	-------------	------

Danfoss

Esbe Balancing Valves

440-6100	1/2" BALANCING VALVE	065F8965-01
440-6110	3/4" BALANCING VALVE	065F8966-01
440-6120	1" BALANCING VALVE	065F8967-01
440-6130	1-1/4" BALANCING VALVE	065F8968-01



9500

Robertshaw

09500 Series Digital

- Non-Programmable
- Contemporary Designer White
- Low battery Indicator
- Choice between Fahrenheit and Celsius °F/ °C selectable
- Mercury free, environmentally safe
- Battery powered
- Adjustable temperature differential
- Set point temperature range of 45° to 90° F (7° to 32° C)
- Large digital LCD for easy viewing of room and set point temperatures
- Perfect replacement for all popular mechanical thermostats
- Compatible with all standard 24 VAC heating and cooling systems

Code #	Stages			Ht Features	*Special Terminals	Part #
	Heat	Cool	Pmp			
440-9025	1	1	Single	^F	Rh, Rc,W,Y,G,O,B	9500



9600

09600 Series Programmable

- Residential programmable (setback) thermostat
- Contemporary designer white
- LCD digital display
- Choice between Fahrenheit and Celsius °F/ °C selectable
- Battery powered
- Low battery indicator
- Temporary temperature override
- Mercury free, environmentally safe
- Easy one button programming
- Set point temperature range of 45° to 90° F (7° to 32° C)
- Complies with energy codes and utility programs requiring programmable (setback) thermostats
- Winter/summer programs can be entered upon installation - no need to reprogram at change of seasons
- Adjustable temperature differential

Part No.	Stages			Ht Pmp	*Special Features	Terminals	
	Heat	Cool					
440-9000	1	1			^A,B,F	Rh, Rc,W,Y,G	9600
440-9010	1	1	Single		^C,D,F,G	Rh, Rc,W,Y,G,O,B	9610

