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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL

### BURNER CONTROLS

ENTIRE SERIES AVAILABLE - CALL YOUR LOCAL BRANCH TO ORDER.

### ON/OFF PRIMARY CONTROLS

Microprocessor-based integrated primary burner control for automatically fired gas, oil or combination fuel single burner applications.

# Honeywell



| PART NUMBER | NOTES              | DETAIL                                                                                |
|-------------|--------------------|---------------------------------------------------------------------------------------|
| RM7890A1015 | INTERMITTENT PILOT | MAIN FLAME ESTABLISHMENT: INTERMITTENT;<br>PILOT FLAME ESTABLISHMENT: 4 SEC OR 10 SEC |

### ON/OFF PRIMARY W/PREPURGE

Microprocessor-based integrated primary burner control for automatically fired gas, oil or combination fuel single burner applications.



| PART NUMBER | SIZE                  | NOTES              | DETAIL                                                                                   |
|-------------|-----------------------|--------------------|------------------------------------------------------------------------------------------|
| RM7895A1014 | USED WITH 7800 SERIES | INTERMITTENT PILOT | MAIN FLAME ESTABLISHMENT:<br>INTERMITTENT; PILOT FLAME<br>ESTABLISHMENT: 4 SEC OR 10 SEC |
| RM7895C1012 | USED WITH 7800 SERIES | INTERRUPTED PILOT  | MAIN FLAME ESTABLISHMENT: 10<br>SEC; PILOT FLAME ESTABLISHMENT: 4<br>SEC OR 10 SEC       |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL BURNER CONTROLS PROGRAMMERS

Microprocessor-based integrated primary burner control for automatically fired gas, oil or combination fuel single burner applications.



| PART NUMBER | NOTES                             | DETAIL                                                                                 |
|-------------|-----------------------------------|----------------------------------------------------------------------------------------|
| RM7840L1018 | INTERRUPTED 2ND STAGE PILOT VALVE | MAIN FLAME ESTABLISHMENT: 10 SEC OR 15 SEC; PILOT FLAME ESTABLISHMENT: 4 SEC OR 10 SEC |

## PROGRAMMING CONTROL

Microprocessor-based integrated burner control for full modulation applications; provides automatic burner sequencing, flame supervision, system st



| PART NUMBER | NOTES               | DETAIL                     | TIMING            |
|-------------|---------------------|----------------------------|-------------------|
| RM7830A1029 | ON/OFF POWER BURNER | LOCKOUT; INTERRUPTED PILOT | 30 SEC POST PURGE |



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### BURNER CONTROLS

### KEYBOARD DISPLAY MODULE

Provides current status of burner sequence, timing info, hold info & lockout info; selectable or preemptive messages.



| PART NUMBER | DETAIL     |
|-------------|------------|
| S7800A1001  | IN ENGLISH |

### AMPLIFIERS



| PART NUMBER | COLOR  | NOTES                                                                                                             | DETAIL    | TIMING            |
|-------------|--------|-------------------------------------------------------------------------------------------------------------------|-----------|-------------------|
| R7847A1025  | GREEN  | USE WITH:<br>C7004,C7005,C7007,C7008,C7009,Q179                                                                   | FLAME ROD | .8 SEC OR 1.0 SEC |
| R7847A1033  | GREEN  | USE WITH: GAS, RECTIFYING FLAME ROD<br>C7004,C7005,C7007,C7008,C7009,Q179-GAS,OIL,COAL: UV FLAME SENSOR C7012A. C | FLAME ROD | 2 SEC TO 3 SEC    |
| R7848A1008  | RED    | USE WITH: GAS, OIL, COAL: INFRARED (LEAD SULFIDE) C7015                                                           | INFRARED  | 2 SEC OR 3 SEC    |
| R7849A1015  | PURPLE | USE WITH: GAS, OIL MINIPeeper C7027A,C7035A,C7044                                                                 | UV        | .8 SEC OR 1.0 SEC |
| R7849A1023  | PURPLE | USE WITH: GAS, OIL MINIPeeper C7027A,C7035A,C7044                                                                 | UV        | 2 SEC OR 3 SEC    |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL BURNER CONTROLS SUBBASE

Burner, panel or wall mount subbase for 7800 series relay modules and s7830a expanded enunciator.



| PART NUMBER | DETAIL      |
|-------------|-------------|
| Q7800A1005  | PANEL MOUNT |

## TIMER - PLUG IN PURGE

Provides prepurge timing for select 7800 series relay modules, from 2 seconds to 45 seconds.



| PART NUMBER | TIMING |
|-------------|--------|
| ST7800A1039 | 30 SEC |
| ST7800A1054 | 60 SEC |



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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL BURNER CONTROLS FLAME ROD, IR, UV

Used to apply flame rod in gas-fired systems controlled by recitification type flame safeguard control, where



| PART NUMBER | SIZE     | COMMENT                                               | NOTES                                                | DETAIL                          |
|-------------|----------|-------------------------------------------------------|------------------------------------------------------|---------------------------------|
| C7008A1174  | 12" ROD  | MOUNTING: 1/4" NPT MALE; RAJAH ELECTRICAL CONNECTIONS | USE WITH: R7247A, B, R7847A, B, R7257, R7289         | FLAME ROD AND HOLDER; FLAME ROD |
| C7027A1023  | 96" LEAD | MOUNTING: INTEGRAL NUT FOR 1/2" SIGHTING PIPE         |                                                      | MINIPEEPER; UV                  |
| C7027A1049  | 96" LEAD | MOUNTING: INTEGRAL NUT FOR 1/2" SIGHTING PIPE         | INCL: 1/2" NPT THREADED SPUD CONNECTOR               | MINIPEEPER; UV                  |
| C7035A1023  | 72" LEAD | MOUNTING: INTEGRAL NUT FOR 1" SIGHTING PIPE           | USE WITH: R7294A, B, R7849A, B, R7749B, R7259, R7290 | MINIPEEPER; UV                  |
| C7915A1010  | 30" LEAD | MOUNTING: 3/4" NPT                                    | INCL: MAGNIFYING LENS, 32007255-001 CELL             | LEAD SULFIDE; IR                |
| C7927A1016  | 96" LEAD | DETECTS UV RADIATION IN FLAMES                        | USED WITH R7851B                                     | MINIPEEPER; UV                  |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL GAS VALVES ACTUATORS

Used in combination with V5055 or V5097 valves to control gas supply to commercial and industrial burners. Provides final safety shutoff.



| PART NUMBER | COMMENT                                                       | PRESSURE RANGE | NOTES                              | DETAIL                                 | TIMING              |
|-------------|---------------------------------------------------------------|----------------|------------------------------------|----------------------------------------|---------------------|
| V4055A1007  | USE WITH:<br>V5055/V5097A,B<br>VALVE BODIES                   | 5 PSI MAX      | DAMPER SHAFT: NO                   | ON/OFF                                 | 26 SEC<br>OPENING   |
| V4055A1098  | USE WITH:<br>V5055/V5097A,B<br>VALVE BODIES                   | 5 PSI MAX      | DAMPER SHAFT: YES                  | ON/OFF                                 | 13 SEC<br>OPENING   |
| V4055D1019  | USE WITH: PROOF<br>OF CLOSURE<br>V5055/V5907C<br>VALVE BODIES | 5 PSI MAX      | LOW PRESSURE; DAMPER<br>SHAFT: YES | ON/OFF; PROOF OF<br>CLOSURE AUX SWITCH | 13 SEC<br>OPENING   |
| V9055A1055  | USE WITH V5055B<br>VALVE BODIES                               | 5 PSI MAX      | LOW PRESSURE; DAMPER<br>SHAFT: YES | MODULATING-OFF                         | 13 OR 26<br>SECONDS |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL

### MOD MOTORS

### MOD MOTORS



M436A1116



M9184D1021  
M9174C1025  
M7284A1004

| PART NUMBER | NOTES                                                 | DETAIL                    | TORQUE    | TIMING                              | STROKE     |
|-------------|-------------------------------------------------------|---------------------------|-----------|-------------------------------------|------------|
| M436A1116   | 2 POSITION, SPST                                      | KIT MOUNTED; FOOT MOUNTED | 20 LB-IN  | 40 SEC MAX RUN TIME; 30 SEC OPENING | 60-75 ADJ  |
| M7284A1004  |                                                       |                           | 150 LB-IN | 30 - 60 SEC                         | 90-160 ADJ |
| M9174C1025  | 2 AUX SWITCHES; INCL TRANSFORMER; REPLACES M9171C1002 |                           | 75 LB-IN  | 30 - 90 SEC                         | 90-160 ADJ |
| M9184D1021  |                                                       | FOOT MOUNTED              | 150 LB-IN | 30 - 60 SEC                         | 90-160 ADJ |

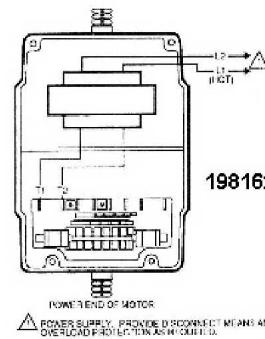
## ACCESSORIES



220736B



Q7230A1005



198162EA

| PART NUMBER | DETAIL              |
|-------------|---------------------|
| 198162EA    | TRANSFORMER         |
| 220736B     | AUXILARY SWITCH KIT |
| Q7230A1005  | INTERFACE           |



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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL IGNITION TRANSFORMERS



| PART NUMBER | DETAIL                            |
|-------------|-----------------------------------|
| A06-SA6     | 120 VOLT PRIMARY, 6000 VOLT SEC   |
| A08-SA1     | 120 VOLT PRIMARY, 8500 VOLT SEC   |
| LJH-90A     | 120 VOLT PRIMARY, 10,000 VOLT SEC |

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| PART NUMBER | DETAIL                                                       |
|-------------|--------------------------------------------------------------|
| Q624A1014   | 120 VAC PRIMARY; USE ONLY IN INTERRUPTED IGNITION APPLIANCES |



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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL IGNITION ACCESSORIES



| PART NUMBER | DETAIL                                                             |
|-------------|--------------------------------------------------------------------|
| E60-100     | UL LISTED IGNITION CABLE; BLACK; -40' F TO 140' F; 14 GAUGE        |
| E63-100     | UL LISTED IGNITION CABLE, RED SILICONE, -61' F TO 482' F; 16 GAUGE |
| E9-AEBF     | EXTENDED BAKELITE TERMINAL; ANGLE                                  |
| E9-CT       | RAJAH CAGE TERMINAL                                                |
| E9-EBF      | EXTENDED BAKELITE TERMINAL; ANGLE                                  |
| E9-ECF      | HIGH TEMP CERAMIC SPARK PLUG BOOT W/ STAINLESS STEEL TERMINAL      |
| E9-RAC      | RAJAH CAGE TERMINAL; ANGLE                                         |
| E9-SSN      | RAJAH TERMINAL                                                     |
| T32-30      | CO2 CARTRIDGES; 8 GRAM; 800 PSI; BOX OF 10                         |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL OIL CONTROL

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| PART NUMBER | NOTES                                                                                                                            | DETAIL                               | TIMING |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------|
| R8184G4009  | PROVIDES AUTO, RECYCLING CONTROL OF INTERMITTENT IGNITION OIL BURNER SYSTEM; INCL LED FOR LOCKOUT INDICATION & MANUAL TRIP LEVER | PROTECTO RELAY; 45 SEC SAFETY SWITCH |        |
| R8184G4066  | LED FOR LOCKOUT INDICATION, MANUAL TRIP LEVER ON SAFETY SWITCH                                                                   | PROTECTO RELAY                       | 15 SEC |

## ACCESSORIES



| PART NUMBER | SIZE                                                          | NOTES                                                   | DETAIL                                                    |
|-------------|---------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|
| C554A1463   | 60" LEADS; ELEC CONN: NEC CLASS 1, 2 FLAG 1/4" QUICK CONNECTS | INCL: A,B,E,J & P MOUNTING BRACKETS & FUEL LINE ADAPTOR | CADMIUM SULFIDE FLAME DETECTOR FOR SEQUENCING OIL SYSTEMS |



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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL

### PILOT BURNER

### PILOT



Q179A1050



Q179C1009  
Q179C1033

| PART NUMBER | SIZE          | TYPE OF GAS | NOTES                      | DETAIL                                                            |
|-------------|---------------|-------------|----------------------------|-------------------------------------------------------------------|
| Q179A1050   | .028" ORIFICE | NAT         | SIDE/END MOUNTING BRACKET  | INTERMITTENT OR INTERRUPTED IGNITION; "T" PORT & BURNER TIP STYLE |
| Q179C1009   | .026" ORIFICE | NAT         | REAR MOUNTING BRACKET      | INTERMITTENT OR INTERRUPTED IGNITION; "D" PORT & BURNER TIP STYLE |
| Q179C1033   | .026" ORIFICE | NAT         | LEFT SIDE MOUNTING BRACKET | INTERMITTENT OR INTERRUPTED IGNITION; "D" PORT & BURNER TIP       |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL PRESSURE CONTROLS/LIMITS



C6097A1012  
C6097A1053  
C6097B1028



L404F1078  
L404F1102



L4079B1041



L91B1050

| PART NUMBER | OUTLET<br>PRESSURE<br>RANGE       | PRESSURE RANGE | NOTES                                                        | DETAIL                                                    |
|-------------|-----------------------------------|----------------|--------------------------------------------------------------|-----------------------------------------------------------|
| C6097A1012  |                                   | 3 - 21 PSI     | 1/4" NPT INTERNAL THREAD                                     | MANUAL RESET, BREAK ON PRESSURE FAIL                      |
| C6097A1053  |                                   | 3 - 21 PSI     | 1/4" NPT INTERNAL THREAD                                     | AUTO RECYCLE, BREAK ON PRESSURE FAIL                      |
| C6097B1028  |                                   | 3 - 21 PSI     | 1/4" NPT INTERNAL THREAD                                     | MANUAL RESET, BREAK ON PRESSURE RISE                      |
| L404F1078   | 85 MAX<br>SUSTAINED<br>OPERATING  | 5 - 50 PSI     | 1/4" NPT INTERNAL THREAD OR<br>SURFACE MOUNT THROUGH<br>BACK | SPDT SNAP ACTION, MAKE R-W,<br>BREAK R-B ON PRESSURE RISE |
| L404F1102   | 225 MAX<br>SUSTAINED<br>OPERATING | 10 - 150 PSI   | 1/4" NPT INTERNAL THREAD OR<br>SURFACE MOUNT THROUGH<br>BACK | SPDT SNAP ACTION, MAKE R-W,<br>BREAK R-B ON PRESSURE RISE |
| L4079B1041  | 225 MAX<br>SUSTAINED<br>OPERATING | 10 - 150 PSI   | MANUAL RESET                                                 | SPST BREAK ON PRESSURE RISE                               |
| L91B1050    | 225 MAX<br>SUSTAINED<br>OPERATING | 5 - 150 PSI    | OPTIONAL SURFACE MOUNT<br>THROUGH BACK                       | SINGLE POTENTIOMETER                                      |





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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL TEMPERATURE CONTROL/LIMITS AQUASTAT



| PART NUMBER | SIZE    | TEMP          | NOTES                                                               | DETAIL                                                                                |
|-------------|---------|---------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| L4006A1678  | 3" CAP  | 100 - 240 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | LOCKED ROTOR: 48A @ 120VAC; 30.6A @ 240VAC                                            |
| L4006A1959  | 3" CAP  | 40 - 180 DEG  | BULB: 3/8" X 2 7/8" COPPER                                          | FULL LOAD: 2.6A @ 120VAC; 1.3A @ 240VAC                                               |
| L4006E1067  | 3" CAP  | 130 - 270 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | LOCKED ROTOR: 48A @ 120VAC; 30.6A @ 240VAC                                            |
| L4006E1091  | 3" CAP  | 130 - 270 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | LOCKED ROTOR: 48A @ 120VAC; 30.6A @ 240VAC                                            |
| L4008A1015  | 66" CAP | 100 - 240 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | HIGH OR LOW LIMIT APPLICATION; SPST, CONTACTS BREAK ON TEMP RISE                      |
| L4008E1156  | 66" CAP | 130 - 270 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | HIGH LIMIT, MANUAL RESET; SPST, CONTACTS BREAK ON TEMP RISE; HEAT CONDUCTIVE COMPOUND |
| L6006A1145  | 3" CAP  | 100 - 240 DEG | BULB: 3/8" X 2 7/8" COPPER                                          | FULL LOAD: 8A @ 120VAC; 5.1A @ 240VAC                                                 |
| L6006C1018  |         | 65 - 200 DEG  | BULB: 3/8" X 2 7/8" COPPER; MOUNT: HORIZONTAL, VERTICAL OR STRAP ON | CIRC CONTROL & HIGH OR LOW LIMIT; SPDT SWITCHING ACTION; INCL FACTORY SET @ 200'      |
| L8100B1128  | 39" CAP | 100 - 180 DEG | HIGH LIMIT, 39" CAPILLARY, 1 1/2" INSULATION DEPTH                  | IMMERSION WELL; SPST, CONTACTS BREAK ON TEMP RISE                                     |

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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL TEMPERATURE CONTROL/LIMITS WELLS



| PART NUMBER | DETAIL                  |
|-------------|-------------------------|
| 121371A     | 1/2" NPT X 3" INSERTION |
| 121371B     | 3/4" NPT X 3" INSERTION |

## STEAM RELIEF



| PART NUMBER | SIZE | DETAIL                   |
|-------------|------|--------------------------|
| 13-211-B15  | 3/4" | 15 PSI; 419 LBS PER HOUR |





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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL HYDRONIC FLOAT VALVE



| PART NUMBER | SIZE            | MATERIAL |
|-------------|-----------------|----------|
| R400-1/2    | 1/2" X 1/2"     | BRASS    |
| R400-3/4    | 3/4" X 3/4" MIP | BRASS    |

## FLOAT VALVE ACCESSORIES



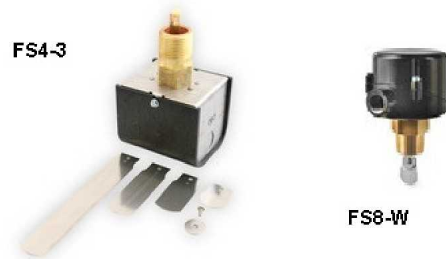
Rod not pictured.

| PART NUMBER | SIZE       | DETAIL        | MATERIAL |
|-------------|------------|---------------|----------|
| R440-4      | 1/4-20 SAE | 4" FLOAT BALL | COPPER   |
| R440-5      | 1/4-20 SAE | 5" FLOAT BALL | COPPER   |
| R450-12     | 1/4-20 SAE | 12" ROD       | BRASS    |

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## **BURNER/BOILER/COMMERCIAL/INDUSTRIAL COMPONENTS FLOW SWITCH**

Versatile controls actuated by liquid or air flow - widely used as automatic controllers.



| PART NUMBER | SIZE   | DETAIL                           |
|-------------|--------|----------------------------------|
| FS4-3       | 1" NPT | LIQUID; GENERAL PURPOSE          |
| FS8-W       | 1" NPT | LIQUID; #120601; GENERAL PURPOSE |

## **GAUGE GLASS**

Gaskets available upon request.



| PART NUMBER | SIZE       | DETAIL  |
|-------------|------------|---------|
| 5/8X10RL    | 5/8" X 10" | REDLINE |
| 5/8X12RL    | 5/8" X 12" | REDLINE |
| 5/8X18RL    | 5/8" X 18" | REDLINE |
| 5/8X24RL    | 5/8" X 24" | REDLINE |
| 5/8X36RL    | 5/8" X 36" | REDLINE |
| 5/8X48HDRL  | 5/8" X 48" | REDLINE |
| 5/8X60RL    | 5/8" X 60" | REDLINE |



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## BURNER/BOILER/COMMERCIAL/INDUSTRIAL COMPONENTS GAUGE GLASS



| PART NUMBER | DETAIL            |
|-------------|-------------------|
| 69012       | CUTTER WITH CHAIN |

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