



APPLICATIONS:

APPLIANCE

ELECTRICAL

HVAC/R

MARINE

POOL & SPA

RV



OVERVIEW

ICM's Intermittent Ignition Oil Primary Control is ideal for residential oilfired burners used in boilers, forced air furnaces, water heaters and other oil burning appliances where pre/post-purge is not a safety requirement. It uses a C554A Cadmium Sulfide (cad cell) Flame Detector to monitor the burner flame. In the event of flame failure or flame loss, the control will shut the system down.

In the event of a lockout, pressing and holding in the red external reset button for three seconds will manually reset the safety switch. (For added safety, the button press is activated upon release to ensure that the button can not be permanently held in).

A status indicator LED on the control board indicates the function of the control and can be used to aid in testing and/or troubleshooting the control. To initiate a manual lockout of the system, press and hold the reset button when the status LED is off. There is a slight delay before the heat call is implemented. This is to verify the call is valid.

REPLACES

- **ICM1501 (15 seconds)**
 - Honeywell: R8184G4066, R8184G1161, R8184G1294
- **ICM1502 (30 seconds)**
 - Honeywell: R8184G4074, R8184G1179, R8184G1302, R8184G4033
- **ICM1503 (45 seconds)**
 - Carlin: 48245
 - Honeywell: R8184G4009, R8184G1138, R8184G1427, R8184G4025
 - Tempstar/Heil: 1147017
 - White Rodgers: 668-401

FEATURES

- ✓ ICM1501 – 15 second lockout times
- ✓ ICM1502 – 30 second lockout times
- ✓ ICM1503 – 45 second lockout times
- ✓ Controls oil burner, oil valve (if desired) and the ignition transformer in response to a call for heat
- ✓ Solid state flame sensing circuit
- ✓ LED on terminal strip indicates system lockout
- ✓ Enclosed safety switch with external reset button
- ✓ Mounts on standard 4 x 4 in. junction box; select models may be mounted directly on burner housing
- ✓ C554A Cadmium sulfide flame detector and 24 VAC thermostat required
- ✓ Form, fit and functional replacement for popular competitive models

SPECIFICATIONS

- **Ignition Type:** Intermittent
- **Timing, safety switch:** 15, 30 or 45 seconds
- **Mounting bracket:** For mounting on a standard 4" X 4" junction box or direct mounting on burner housing
- **Elec. rating, contacts (full load):** 7.4 A @ 120 VAC; 3.7 A @ 240 VAC
- **Elec. rating, contacts (locked rotor):** 44.4 A @ 120 VAC; 22.2 A @ 240 VAC
- **Temperature range:** -30°F to +130°F (-34°C to +55°C)
- **Approvals:** Underwriters Laboratories Inc