

EC7890; RM7890 On-Off Primary Controls



Microprocessor-based integrated primary burner control for automatically fired gas, oil or combination fuel single burner applications. Provides level of safety, functional capability and features beyond conventional controls.

Dimension Diagrams

See diagram on page 696

Ambient Temperature Rating: -40 F to 140 F (-40 C to 60 C)

Vibration: 0.5 G environment

Weight (lb): 1 lb 13 oz (0.8kg)

Approvals:

Canadian Standards Association: Certified, File No. LR95329-3.

Factory Mutual: Approved: Report No. J.I.1V9AO.AF.

FCC Emissions: FCC Part 15, Class B, Emissions.

Industrial Risk Insurers: IRI Acceptable.

- Functions include automatic burner sequencing, flame supervision, system status indication, system or self-diagnostics and troubleshooting.
- Subbase and amplifier are required for operation.
- Options include PC interface, keyboard display module, DATA CONTROLBUS™ MODULE, remote display module, first-out expanded annunciator, and COMBUSTION SYSTEM MANAGER™ software.
- Five LEDs provide sequence information.
- Interchangeable plug-in flame amplifiers.
- Optional local or remote annunciation of operation and fault information.
- Nonvolatile memory retains history files and sequencing status after power loss.
- Optional remote reset capability.
- Optional report generation.
- Selectable relight or lockout on loss of flame.

Underwriters Laboratories, Inc: Listed: File No. MP268, Guide No. MCCZ.

Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7861, or R7886 Flame Signal Amplifier.

Accessories:

123514A Flame Simulator, Rectification Type Flame Amplifiers

221729A Dust Cover for 7800 Relay Modules

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Product Number	Electrical Ratings, Power Supply (Vac)	Electrical Ratings, Power Supply (Hz)	Flame Establishing Period	Pilot Type	Comments
			Pilot		
EC7890A1011	220-240 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	—
EC7890A1029	220-240 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	CE Certified
EC7890B1010	220-240 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	Includes Shutter Drive Capability
EC7890B1028	220-240 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	Includes Shutter Drive Capability, CE Certified
RM7890A1015	120 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	—
RM7890A1031	120 Vac (+10/-15%)	50/60 Hz (±10%)	30 sec	intermittent	—
RM7890A1049	100 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	—
RM7890B1014	120 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec	intermittent	Includes Shutter Drive Capability
RM7890B1030	120 Vac (+10/-15%)	50/60 Hz (±10%)	4 sec or 10 sec, fixed	intermittent	Includes Shutter Drive Capability, Alarm sounds when Reset pushed.
RM7890C1005	120 Vac (+10/-15%)	50/60 Hz (±10%)	—	—	Standing Pilot Applications
RM7890D1004	120 Vac (+10/-15%)	50/60 Hz (±10%)	15 sec or 30 sec	intermittent	Higher Flame Sensor Voltage for Infra Red Heater Applications