

Microprocessor Burner Controls

EC7830; **EC7850**; RM7830; RM7850

Programming Control Meeting European Community Timings

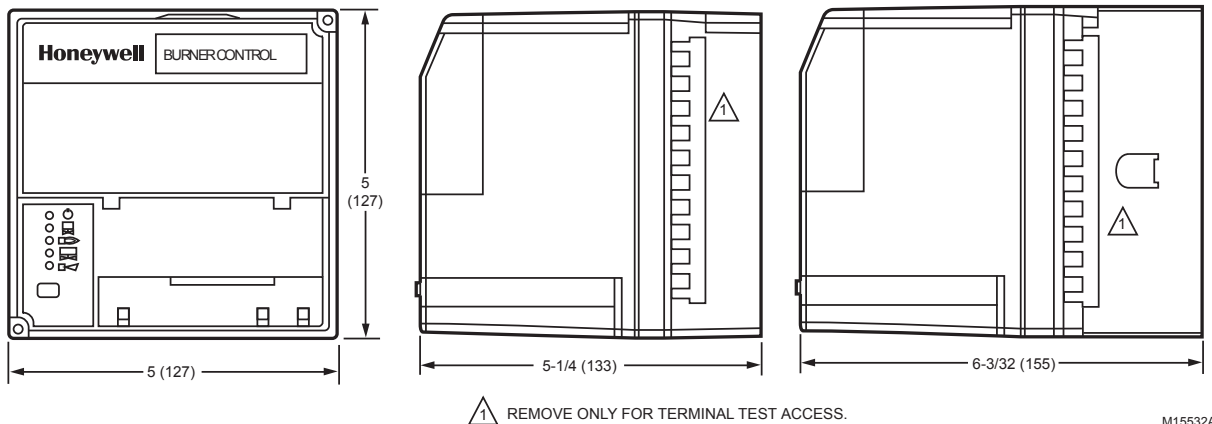


Microprocessor-based integrated burner control for full modulation applications. Provides automatic burner sequencing,

flame supervision, system status indication, system or self-diagnostics, and troubleshooting.

- Access for external electrical voltage checks
- Application flexibility and communication interface capability through Modbus™
- Five LEDs provide sequence information
- Five function Run/Test Switch
- Interchangeable plug-in amplifiers
- Local or remote annunciation of operation and fault information (optional)
- Nonvolatile memory retains history files and lockout status after loss of power
- Compatible with existing Honeywell flame detectors
- SIL3 Capable in a properly designed Safety Instrumental System when using amplifiers R7847B,C; R7849B; R7851B,C; R7852B; R7861A and R7886 with their appropriate flame detectors

Dimensions in inches (millimeters)



Application: Programming Control
Ambient Temperature Range: -40 F to +140 F (-40 C to +60 C)
Vibration: 0.5 G environment
Frequency: 50 Hz; 60 Hz (±10%)
Early Spark Termination: Yes, 5 sec
Preignition: Yes
PrePurge: Determined by ST7800A Purge Timer Card
Interlocks: Lockout
AirFlow Check: User selectable
Second Stage Pilot Valve: Intermittent
Weight: 1 lb 10 oz (0.7 kg)

Approvals
Factory Mutual: Report No. 1V9AO.AF.
Gastec/European: GASTEC: CE-63AP3070/1, Approved to EN298.
Swiss RE (formerly IRI): Acceptable
Required Components: Q7800A,B Universal Wiring Subbases.
 R7847, R7849, R7861, or R7886 Flame Signal Amplifier. ST7800A Plug-in Purge Timer Card.



Product Number	Voltage	Pilot Type	Flame Establishing Period		PostPurge	Comments
			Main	Pilot		
EC7830A1033/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	2 sec	On/Off Power Burner
EC7830A1041/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	30 sec	On/Off Power Burner
EC7830A1066/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	15 sec	On/Off Power Burner
EC7850A1064/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	30 sec	LHL-LF&HF Proven; Dynamic damper check
EC7850A1072/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	2 sec	LHL-LF&HF Proven
EC7850A1080/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	30 sec	LHL-LF&HF Proven
EC7850A1122/U	220 to 240 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	15 sec	LHL-LF&HF Proven
RM7830A1003/U	120 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	2 sec	On/Off Power Burner
RM7830A1011/U	120 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	15 sec	On/Off Power Burner
RM7830A1029/U	120 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	30 sec	On/Off Power Burner
RM7850A1001/U	120 Vac +10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	2 sec	LHL-LF&HF Proven
RM7850A1019/U	120 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	15 sec	LHL-LF&HF Proven
RM7850A1027/U	120 Vac (+10, -15%)	interrupted	3 sec, or 5 sec, or Intermittent	3 sec or 5 sec	30 sec	LHL-LF&HF Proven