

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.
- Five LEDs provide sequence information.
- Five function Run/Test Switch.
- Interchangeable plug-in amplifiers.
- Local or remote annunciation of operation and fault information (optional).
- Non-volatile memory retains history files and lockout status after loss of power.
- Compatible with existing Honeywell flame detectors.

Application: Programming Control
Flame Establishing Period - Main: 3 sec, or 5 sec, or Intermittent
Flame Establishing Period - Pilot: 3 sec or 5 sec
Interlocks: Lockout
Preignition: Yes
PrePurge: Determined by ST7800A Purge Timer Card
Early Spark Termination: Yes, 5 sec
Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7849, R7861, or R7886 Flame Signal Amplifier. ST7800A Plug-in Purge Timer Card.
AirFlow Check: User selectable
Second Stage Pilot Valve: Intermittent
Pilot Type: interrupted
Vibration: 0.5 G environment
Shipping and Storage Temperature Range: -40°F to +140°F (-40°C to +60°C)

Approximate, Dimensions: 5 in. wide x 5 in. high x 5 1/4 in. deep with Q7800A Subbase x 6 3/32 in. deep with Q7800B Subbase (127 mm wide x 127 mm high x 133 mm deep with Q7800A Subbase x 155 mm deep with Q7800B Subbase)

Weight lb. (kg): 1 lb 10 oz (0.7 kg)

Approvals, Swiss RE: Acceptable

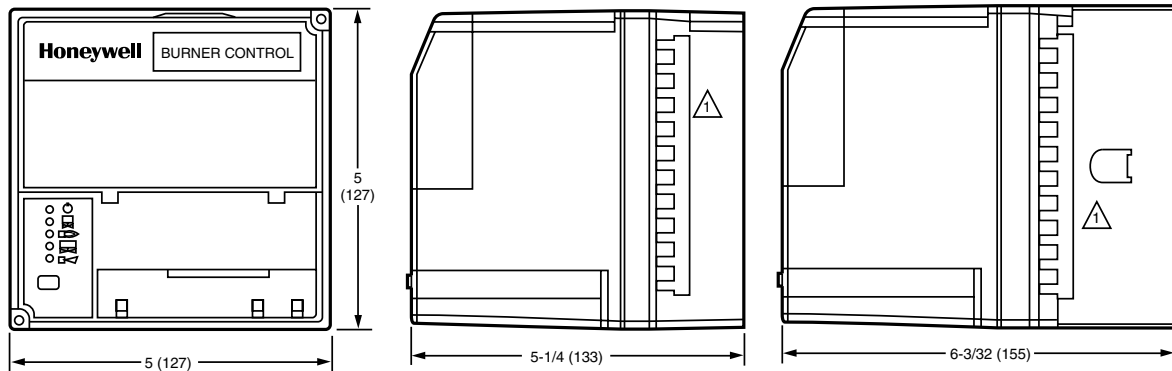
Approvals, Factory Mutual: EC7830, EC7850, RM7830-Report No. 1V9AO.AF; RM7850-Report No. J.I. OYOA9.AF

Approvals, Gastec/European: GASTEC: CE-63AP3070/1, Approved to EN298.



Commercial/Industrial
Combustion Controls

Dimensions in inches (millimeters)



REMOVE ONLY FOR TERMINAL TEST ACCESS.

M15532A

Material Number	Voltage	Frequency	PostPurge	Comments
EC7830A1033/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	2 sec	On/Off Power Burner
EC7830A1041/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	30 sec	On/Off Power Burner
EC7830A1066/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	15 sec	On/Off Power Burner
EC7850A1064/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	30 sec	LHL-LF & HF Proven; Dynamic damper check
EC7850A1072/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	2 sec	LHL-LF & HF Proven
EC7850A1080/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	30 sec	LHL-LF & HF Proven
EC7850A1122/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	15 sec	LHL-LF & HF Proven
EC7850A1148/U	220 to 240 Vac (+10, -15%)	60 Hz (±10%), 50 Hz	2 sec	LHL-LF & HF Proven
RM7830A1003/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	2 sec	On/Off Power Burner
RM7830A1011/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	15 sec	On/Off Power Burner
RM7830A1029/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	30 sec	On/Off Power Burner
RM7850A1001/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	2 sec	LHL-LF & HF Proven; Complies with Gas Appliance Directive (90/396/EEC). Low Voltage Directive (73/23/EEC). EMC Directive (89/336/EEC).
RM7850A1019/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	15 sec	LHL-LF & HF Proven; Complies with Gas Appliance Directive (90/396/EEC). Low Voltage Directive (73/23/EEC). EMC Directive (89/336/EEC).
RM7850A1027/U	120 Vac (+10, -15%)	50 Hz; 60 Hz (±10%)	30 sec	LHL-LF & HF Proven; Complies with Gas Appliance Directive (90/396/EEC). Low Voltage Directive (73/23/EEC). EMC Directive (89/336/EEC).