

# Microprocessor Burner Controls

## RM7838B, C Manual Start Industrial Programmers



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

- Functions include purge, burner pilot startup, flame supervision, system status indication, system or self diagnosis and troubleshooting.
- Delays admission of fuel to combustion chamber until pilot flame has been proven and then monitors the flame through the run period while providing system status indication.
- Includes Keyboard Display Module.
- Five LEDs provide sequence information.
- Intermittent pilot valve.
- Interchangeable plug-in flame amplifier.
- Access for external electrical voltage checks.
- Nonvolatile memory retains history files and lockout status after loss of power.
- Selectable pilot flame establishing period.
- Provides application flexibility and optional communication interface capability.
- Compatible with existing Honeywell flame detectors.

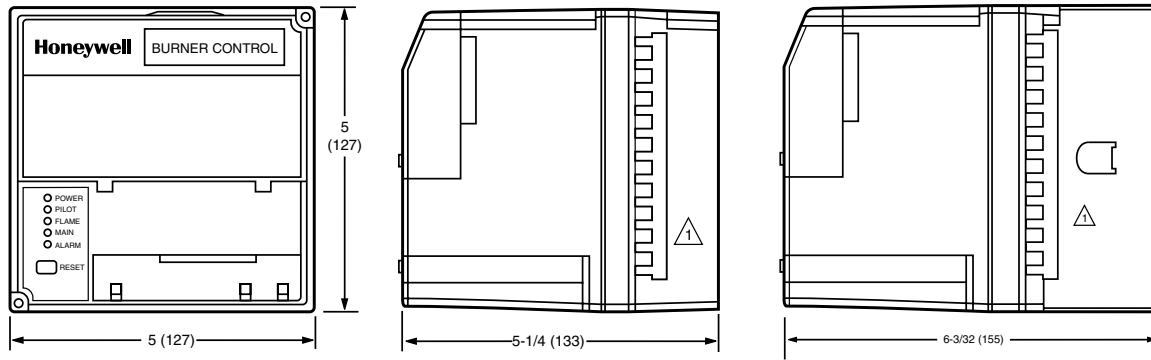
**Application:** Semi Automatic Programming Control  
**Interlocks:** Lockout  
**Preignition:** Yes  
**Early Spark Termination:** Yes, 5 sec  
**Frequency:** 50 Hz; 60 Hz ( $\pm 10\%$ )  
**Pilot Type:** interrupted  
**Vibration:** 0.5 G environment  
**Shipping and Storage Temperature Range:** -40°F 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, Underwriters Laboratories Inc.:** Component Recognized, File No. MP268; Guide No. MCCZ.  
**Approvals, CSA:** Certified, File No. LR95329-3.  
**Approvals, Control Safety Devices:** Acceptable: CSD-1  
**Approvals, FCC:** FCC Part 15, Class B, Emissions.  
**Approvals, Swiss RE:** Acceptable  
**Approvals, Factory Mutual:** Report No. OX4A5.AF.



Commercial/Industrial  
Combustion Controls

**Dimensions in inches (millimeters)**



MODULE WITH SUBBASE M15518B

Material Number	Voltage	Flame Establishing Period - Main	Flame Establishing Period - Pilot	PrePurge	Required Components	Approvals, Gastec/European	Comments
RM7838B1013/U	120 Vac (+10, -15%)	10 sec or Intermittent	4 sec or 10 sec	Determined by ST7800A Purge Timer Card	Q7800A, B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier. ST7800A Plug-in Purge Timer Card.		Includes S7800 Display
RM7838C1004/U	120 Vac (+10, -15%)	10 sec or Intermittent	4 sec or 10 sec	Determined by ST7800C Purge Timer Card	Q7800A, B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier. ST7800C Plug-in Purge Timer Card.		Includes S7800 Display
RM7838C1020/U	120 Vac (+10, -15%)	10 sec or Intermittent	4 sec or 10 sec	Determined by ST7800C Purge Timer Card	Q7800A, B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier. ST7800C Plug-in Purge Timer Card.	Gastec EN268 Report 1156791	Includes S7800 Display