

Microprocessor Burner Controls

RM7838B, C Manual Start Industrial Programmers with VPS



Integrated burner control for industrial semi-automatically fired gas, oil, coal or combination fuel single burner applications. Includes Valve Proving Feature with S7800A1142 Keyboard Display.

- 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 S7800A1142 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.
- With Valve Proving Feature and Programmable Post Purge Time.
- Power LED blinks a fault code on system lockout.

Application: Semi Automatic Programming Control w/VPS

Interlocks: Lockout

Preignition: Yes

PostPurge: programmed with S7800A1142 display

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, Control Safety Devices: Acceptable: CSD-1

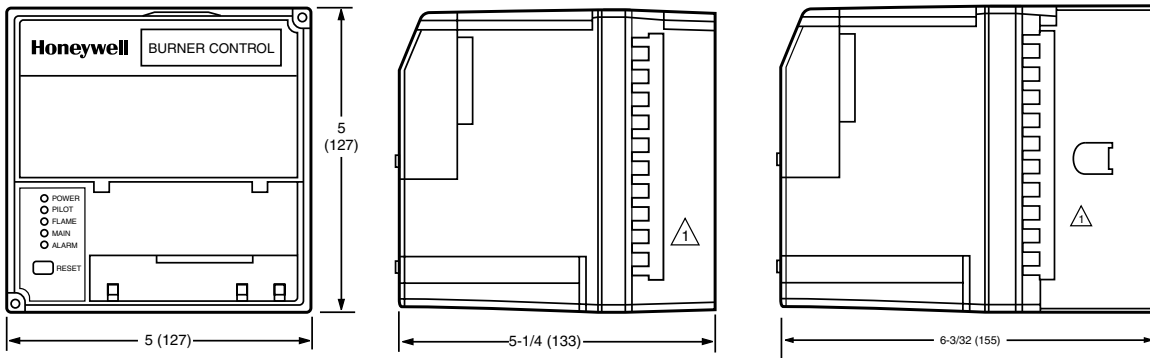
Approvals, FCC: FCC Part 15, Class B, Emissions.

Approvals, Swiss RE: Acceptable

Approvals, Factory Mutual: Report No. OX4A5.AF.



Dimensions in inches (millimeters)



REMOVE ONLY FOR TERMINAL TEST ACCESS.

M15518B

| Material Number | Voltage | Flame Establishing Period - Main | Flame Establishing Period - Pilot | PrePurge | Required Components | Comments |
|-----------------|---------------------|----------------------------------|-----------------------------------|--|---|--|
| RM7838B1021/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 programmable VPS (Valve Proving Switch) check feature and blinking LED fault annunciation |
| RM7838C1012/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 programmable VPS (Valve Proving Switch) check feature and blinking LED fault annunciation |