

# Microprocessor Burner Controls

## RM7838A Manual Start Industrial Primary Control with Purge



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 Primary Control with Purge

**Interlocks:** Running

**PrePurge:** Determined by ST7800A Purge Timer Card

**Required Components:** Q7800A, B Universal Wiring Subbases.

R7847, R7848, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier. ST7800A Plug-in Purge Timer Card.

**Frequency:** 50 Hz; 60 Hz ( $\pm 10\%$ )

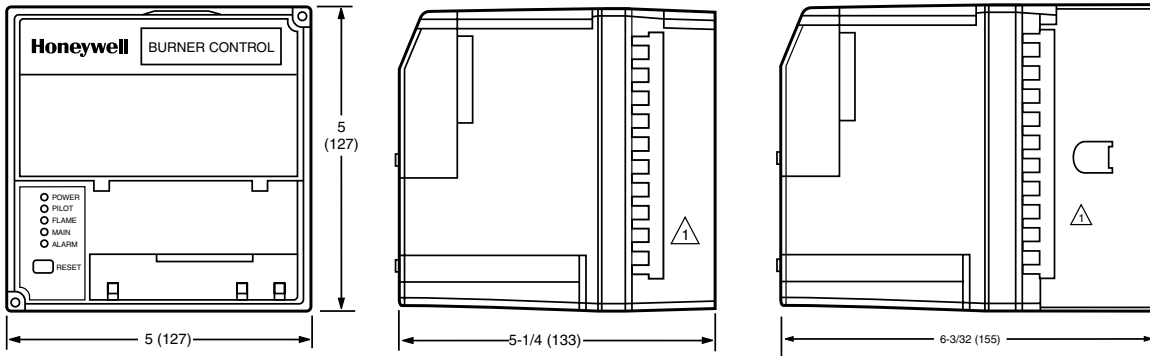
**Pilot Type:** intermittent

**Vibration:** 0.5 G environment

**Shipping and Storage Temperature Range:**  $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )

**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)

**Dimensions in inches (millimeters)**



REMOVE ONLY FOR TERMINAL TEST ACCESS.

MODULE WITH SUBBASE

M15518B



**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.

Material Number	Voltage	Flame Establishing Period - Main	Flame Establishing Period - Pilot	Comments
RM7838A1014/U	120 Vac (+10, -15%)	Intermittent	4 sec or 10 sec	Includes S7800 Display