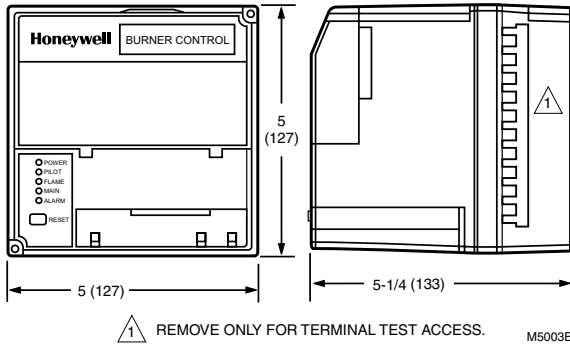


# Microprocessor Burner Controls

## RM7890 On-Off Primary Control with VPS



Dimensions in inches (millimeters)



**Integrated on/off primary burner control for automatically fired gas, oil or combination fuel single burner applications. Contains Valve Proving Feature. Requires S7800A1142 Display to program VPS feature.**

- Functions include automatic burner sequencing, flame supervision, system status indication, system or self diagnostics and troubleshooting.
- Subbase and amplifier are required for operation.
- Power LED blinks Fault Code on lockout.
- Options include PC interface, keyboard display module, DATA CONTROLBUS™ MODULE, remote display module, first-out expanded annunciator, and COMBUSTION SYSTEM MANAGER™ software.
- Five LEDs provide sequence information.
- Interchangeable plug-in flame amplifiers.
- Optional local or remote annunciation of operation and fault information.
- Nonvolatile memory retains history files and sequencing status after power loss.
- Optional remote reset capability.
- Optional report generation.
- Selectable relight or lockout on loss of flame.
- Contains Valve Proving Feature - require S7800A1142 Keyboard Display (not provided) to set up.

**Application:** On-Off Primary Control w/VPS

**Preignition:** Yes

**Required Components:** Q7800A, B Universal Wiring Subbases, R7847, R7848, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier.

**Voltage:** 120 Vac (+10, -15%)

**Frequency:** 50 Hz; 60 Hz (±10%)

**Pilot Type:** intermittent

**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 13 oz (0.8 kg)

**Approvals, Underwriters Laboratories Inc.:** Component Recognized, File No. MP268; Guide No. MCCZ.

**Approvals, CSA:** Certified, File No. LR95329-3.

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

**Approvals, Swiss RE:** Acceptable

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



Commercial/Industrial  
Combustion Controls

Material Number	Flame Establishing Period - Main	Flame Establishing Period - Pilot	Comments
RM7890A1056/U	Intermittent	4 sec or 10 sec	Includes programmable VPS (Valve Proving Switch) check feature and blinking LED fault annunciation
RM7890B1048/U	Intermittent	4 sec or 10 sec	Includes Shutter Drive Capability, VPS (Valve Proving Switch) check and blinking LED fault annunciation