

7800 SERIES—Relay Modules

RM7840 Programmings



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

- Functions include 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 flame amplifiers.
- Local or remote annunciation of RM7840 operation and fault information.
- Non-volatile memory retains history files and lockout status after loss of power.
- Compatible with existing Honeywell flame detectors.

AirFlow Check: selectable

Approvals, Canadian Standards Association: Certified, File No. LR95329-3.

Approvals, Control Safety Devices: Acceptable: CSD-1.
 Approvals, Factory Mutual: Approved: Report No. J.I.OX4A5.AF.
 Approvals, FCC Emissions: FCC Part 15, Class B, Emissions.
 Approvals, Industrial Risk Insurers: IRI Acceptable.
 Approvals, Underwriters Laboratories, Inc.: Listed: File No. MP268, Guide No. MCCZ.

Early Spark Termination: Yes, 5 sec
 Flame Establishing Period - Pilot: 4 sec or 10 sec
 Humidity Ratings: 85% RH continuous, non-condensing
 Pilot Type: interrupted
 PostPurge: 15 sec
 Preignition: Yes
 PrePurge: Determined by ST7800 Purge Timer Card
 Vibration: 0.5 G environment
 Weight: 1 lb 13 oz (0.8kg)
 Electrical Ratings, Power Supply: 120 Vac (+10/-15%); 50/60 Hz (± 10%)
 Temperature Rating (Ambient): -40 F to 140 F; -40 C to 60 C.
 Dimensions: 5 in. wide, 5 in. high, 5 1/4 in. deep with Q7800A Subbase, 6 3/32 in. deep with Q7800B Subbase; 127 mm wide, 127 mm high, 133 mm deep with Q7800A Subbase, 155 mm deep with Q7800B Subbase.
 Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7861, or R7886 Flame Signal Amplifier.
 ST7800 Plug-in Purge Timer Card.

ORDER NUMBER	Interlocks	Flame Establishing Period - Main	Second Stage Pilot Valve	Comments
RM7840E1016	Lockout	10 sec or 15 sec	Interrupted	LHL-LF/HF Proven
RM7840G1014	Running	10 sec, 15 sec, 30 sec or Intermittent	Selectable	LHL-LF Proven
RM7840L1018	Lockout	10 sec or 15 sec	Interrupted	LHL-LF/HF Proven
RM7840L1026		10 sec, or 15 sec, or Intermittent	Intermittent	
RM7840M1017	Running	10 sec or Intermittent		LHL-LF Proven

RM7888 PLC Adaptable Primary Control



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

- Functions include automatic burner startup sequencing, five user select-able run sequences, four line-voltage sequence control inputs, flame supervision, system status indication, system or self-diagnostics and troubleshooting.
- Requires a relay module, subbase, and amplifier for operation.
- Options include PC interface, keyboard display module, Data ControlBus™ Module, remote display mounting, first-out expanded annunciator, and Combustion System Manager™ software.
- Use with master system control which determines purge timing and confirms air supply and air flow.
- Nonvolatile memory retains history files and sequencing status after power loss.

- Optional remote reset capability.
- Five LEDs provide sequence information.
- Interchangeable plug-in flame amplifiers.
- Local or remote annunciation of operation and fault information.

Approvals, Canadian Standards Association: Certified
 Approvals, Factory Mutual: Approved.
 Approvals, Underwriters Laboratories, Inc.: Component Recognized
 Comments: Selectable sequences
 Description: Primary Control, Semi-Automatic
 Flame Establishing Period - Main: 15 sec
 Flame Establishing Period - Pilot: 4 sec or 10 sec
 Humidity Ratings: 85% RH continuous, non-condensing
 Pilot Type: selectable
 Vibration: 0.5 G environment
 Weight: 1 lb 10 oz (0.7kg)
 Electrical Ratings, Power Supply: 120 Vac (+10/-15%); 50/60 Hz (± 10%)
 Temperature Rating (Ambient): -40 F to 140 F; -40 C to 60 C.
 Dimensions: 127 mm wide, 127 mm high, 133 mm deep with Q7800A Subbase, 155 mm deep with Q7800B Subbase; 5 in. wide, 5 in. high, 5 1/4 in. deep with Q7800A Subbase, 6 3/32 in. deep with Q7800B Subbase.
 Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7861, or R7886 Flame Signal Amplifier.

ORDER NUMBER	Description
RM7888A1019	PLC Adaptable Primary Control

Some products are available only through Honeywell Authorized Flame Safeguard Distributors and/or Wholesalers.