

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.

Dimension Diagrams

See diagram on page 689

Ambient Temperature Rating: -40 F to 140 F (-40 C to 60 C)

Vibration: 0.5 G environment

PrePurge: Determined by ST7800 Purge Timer Card

Weight (lb): 1 lb 10 oz (0.7kg)

Approvals:

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

Control Safety Devices: Acceptable: CSD-1.

- 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.
- Non-volatile 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.

Factory Mutual: Approved: Report No. J.I.OX4A5.AF.

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

Industrial Risk Insurers: IRI Acceptable.

Underwriters Laboratories, Inc: Listed: File No. MP268, Guide No. MCCZ.

Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7861, or R7886 Flame Signal Amplifier. ST7800 Plug-in Purge Timer Card.

Product Number	Electrical Ratings, Power Supply (Vac)	Electrical Ratings, Power Supply (Hz)	Flame Establishing Period		Interlocks	Pilot Type	Comments
			Main	Pilot			
RM7838A1014	120 Vac (+10/-15%)	50/60 Hz (±10%)	Intermittent	4 sec or 10 sec	Running	intermittent	Includes S7800 Display

RM7838B,C Manual Start Industrial Programmings

Microprocessor-based integrated burner control with pilot hold function 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. C alarms only on safety shutdown and requires ST7800C Purge Timers.

- Functions include automatic modulated high fire and low fire proven purge, burner pilot start up with pilot valve hold, special pilot valve hold from the Run condition, flame supervision, system status indication, system or self-diagnostics and troubleshooting.
- Access for external electrical voltage checks.

Dimension Diagrams

See diagram on page 689

Early Spark Termination: Yes, 5 sec

Preignition: Yes

Ambient Temperature Rating: -40 F to 140 F (-40 C to 60 C)

PrePurge: Determined by ST7800 Purge Timer Card

Vibration: 0.5 G environment

Weight (lb): 1 lb 10 oz (0.7kg)

Approvals:

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

Control Safety Devices: Acceptable: CSD-1.

- 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 operation and fault information.
- Non-volatile memory retains history files and lockout status after loss of power.
- Compatible with existing Honeywell flame detectors.
- Includes Keyboard Display Module.
- Pilot Valve Hold func. requires R7847C R7861A or R7886A Plug-in Flame Signal Amplifiers.

Factory Mutual: Approved: Report No. J.I.OX4A5.AF.

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

Industrial Risk Insurers: IRI Acceptable.

Underwriters Laboratories, Inc: Listed: File No. MP268, Guide No. MCCZ.

Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7848, R7849, R7851, R7861, or R7886 Flame Signal Amplifier. ST7800 Plug-in Purge Timer Card.

Product Number	Electrical Ratings, Power Supply (Vac)	Electrical Ratings, Power Supply (Hz)	Flame Establishing Period		Interlocks	Pilot Type	Comments
			Main	Pilot			
RM7838B1013	120 Vac (+10/-15%)	50/60 Hz (±10%)	10 sec or Intermittent	4 sec or 10 sec	Lockout	selectable	Includes S7800 Display
RM7838C1004	120 Vac (+10/-15%)	50/60 Hz (±10%)	10 sec or Intermittent	15 second - Rm 7838C	Lockout	selectable	Includes S7800 Display