

Microprocessor Burner Controls

RM7895; EC7895 On-Off Primary Control with Prepurge



Microprocessor-based integrated primary burner control for automatically fired gas, oil, or combination fuel single burner

Application: On-Off Primary Control with Prepurge
Dimensions, Approximate: 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)
Ambient Temperature Range: -40 F to +140 F (-40 C to +60 C)
Vibration: 0.5 G environment
Frequency: 50 Hz; 60 Hz (±10%)
PrePurge: Determined by ST7800A Purge Timer Card
Interlocks: Selectable

applications. Provides level of safety, functional capability and features beyond conventional controls.

- Functions include automatic burner sequencing, flame supervision, system status indication, system or self-diagnostics and troubleshooting
- Subbase, amplifier, and prepurge timer are required for operation
- Options include Modbus™ interface, keyboard display module, remote display module and first-out expanded annunciator
- Five LEDs provide sequence information
- Interchangeable plug-in flame amplifiers
- Optional local or remote annunciation of operation and fault information using the S7800 Keyboard Display Module
- Nonvolatile memory retains history files and sequencing status after power loss
- Selectable relight or lockout on loss of flame
- Dynamic airflow switch check

Weight: 1 lb 15 oz (0.9 kg)

Approvals

Canadian Standards Association: See table

Factory Mutual: See table

Swiss RE (formerly IRI): Acceptable

Control Safety Devices: See table

Underwriters Laboratories, Inc: See table

Required Components: Q7800A,B Universal Wiring Subbases. R7847, R7849, R7851, R7852, R7861, or R7886 Flame Signal Amplifier. ST7800A Plug-in Purge Timer Card.

Product Number	Voltage	Pilot Type	AirFlow Check	Flame Establishing Period		Delayed Main Valve	Comments	Used With	Canadian Standards Association	Factory Mutual	Control Safety Devices	Underwriters Laboratories, Inc.
				Main	Pilot							
EC7895A1010/U	220 to 240 Vac (+10, -15%)	intermittent	—	Intermittent	4 sec or 10 sec	No	—	7800 Series Amplifiers	—	Report No. 1D0A1.A F	—	—
EC7895C1000/U		interrupted	—	10 sec	4 sec or 10 sec	Yes	—	7800 Series Amplifiers	—		—	—
RM7895A1014/U	120 Vac (+10, -15%)	intermittent	—	Intermittent	4 sec or 10 sec	No	—	7800 Series Amplifiers	Certified, File No. LR95329-3	Report No. OX4A5.A F	Acceptable: CSD-1	Component Recognized, File No. MP268; Guide No. MCCZ.
RM7895A1048/U		intermittent	—	Intermittent	4 sec or 10 sec	No	Includes ignition cut-out during PFEP	7800 Series Amplifiers				
RM7895B1013/U		intermittent	Dynamic	Intermittent	4 sec to 10 sec	No	—	7800 Series Amplifiers				
RM7895C1012/U		interrupted	—	10 sec	4 sec or 10 sec	Yes	—	7800 Series Amplifiers				
RM7895C1020/U		interrupted	—	10 sec	10 sec	Yes	Includes ignition cut-out during PFEP	7800 Series Amplifiers				
RM7895D1011/U		interrupted	Dynamic	10 sec	4 sec or 10 sec	Yes	—	7800 Series Amplifiers				
RM7895E1002/U		intermittent	—	Intermittent	15 sec or 30 sec	No	Higher Flame Sensor Voltage for Infra Red Heater Applications	R7847 only				
RM7895E1010/U		intermittent	—	Intermittent	15 sec or 30 sec	No	—	R7847 only				