

RM7895 On-Off Primary Control with Prepurge



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

Honeywell	RA890, R4795, R7795	All 120 V models.
Fireye	M-Series	

IMPORTANT: For on-off, gas-fired systems, some authorities having jurisdiction prohibit the wiring of any limit or operating contacts in series with the main fuel valve(s).

DIRECTIONS:

1. Disconnect all power to programmer.
2. Remove old programmer from subbase (trade-in to Honeywell Authorized Flame Safeguard Distributor).

3. Mark all wires on subbase; i.e., wires connected to terminal “1” should be marked “1.” Disconnect wires as they are marked.
4. Remove old subbase.
5. Mount Q7800A Subbase.
6. Connect wires to subbase per attached cross reference. Pay close attention to footnotes. For example: to convert a Fireye UVM-2 to a RM7895, the wire marked “A” would connect to terminal #9 on the Q7800. The wire marked “8” would connect to Q7800 terminal #8.
7. A superscript letter, such as “^a” designates a footnote. Study these footnotes carefully.
8. Plug in the RM7895. Make sure you select the proper ST7800A Purge Timer and Detector for the application.
9. There are 2 wires on the amplifier section of the RM7895, which are used to select the desired trial for ignition timing and mode (lock-out or recycle). Refer to the RM7895 instruction sheet (form 66-1090) for assistance with proper selection.
10. If a low voltage controller is used on the RA890 or UVM-1, remove it and replace it with a line voltage controller. The line voltage controller should be connected in series with the limits.
11. If a low voltage airflow switch is used on the RM7895, it must be replaced with a line voltage airflow switch, such as the Honeywell C645.
12. The following models are recommended for replacements:

Honeywell Device to be Replaced	Replace With	Amplifier
RA890E,F	RM7895A	R7847A
RA890G	RM7895A	R7849A
R4795A,D/W-R7290 AMP	RM7895A	
R4795A,D/W-R7289 AMP	RM7895B	R7847A
R7795A	RM7895A	
R7795B	RM7895A	
R7795C	RM7895C	
R7796D	RM7895C	
R4140P	RM7895C	R7847A, R7849A
R4140Y	RM7895A	
Fireye Device to be Replaced	Replace With	Amplifier
TFM1,2,3H	RM7895A	R7847A
UVM1,2,3,3H		R7849A
UVM5	RM7895C	R7849A

CONVERSION CHART FOR RM7895 120 VOLT ONLY

Q7800 TERMINAL	L1	L2	3	4	6	7	8	9	10	21	F	G
Programmer to be Converted												
RA890 (All)	1 ^a	2	c	b,d	6	b	3 ^d	5	4	—	F	G
R4795 (All)	a	2	c	8, 7	1	6 ^b	3	5	4	—	F	G
R7795A,B	L1	L2	9	8	16	3	5	6	18	—	F	G
R7795C,D	L1	L2	9	8	16	3	5	6	18	7	F	G
R4140P	L1	L2	A	M	3	P	5	7	—	6	S1	S2
R4140Y	L1	L2	9	8	4	3	6	7	5	—	F ^e	G
Fireye: UVM/TFM (All models)/MII	1	1	A	8	7	6	3	5	4	—	S2 ^f	S1
UVM-1 (Prior to 1968)	a	2	A	b,d	1	b	3	5	4	—	S ^f	S
UVM-2 (Prior to 1968), All others	a	2	A	8	1	6	3	5	4	—	S ^f	S

^a Connect power to terminal L1.

^b If no airflow switch is used, jumper Q7800 terminal 6 to 7.

^c Replace low voltage alarm (if used) with line voltage alarm. Connect alarm directly to Q7800 terminal 3.

^d On power burners, identify burner motor wire on terminal 3 and connect it to Q7800 terminal 4.

^eSelect amplifier to match detector being used.

^fOn UVM models, the detector must be changed to a Honeywell C7027 or C7035.