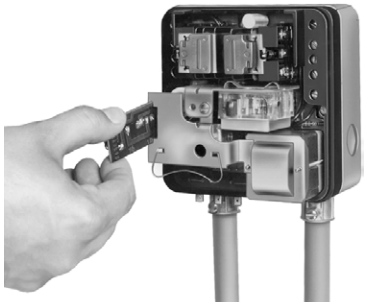
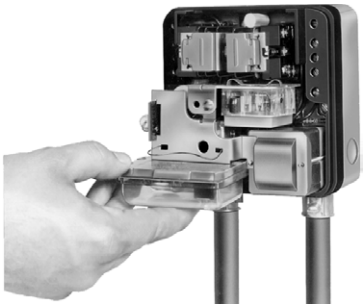
4
Plug in
ST71A
purge timer.



5
Plug in
R7289/R7290
amplifier



R7795 Primary Control

Provide flameout protection plus automatic control of commercial and industrial gas and oil burners.

- Meet requirements for gas burners with 400,000 to 2-1/2 million Btuh (117.2 to 732.8 kW) input. R7795C,D meet requirements to over 12-1/2 million Btuh.
- R7795A,B provide ignition cutoff and intermittent pilot.
- R7795C,D have interrupted pilot with delayed main valve.
- Includes terminals for connection of a line voltage airflow switch to prove airflow from the start of prepurge through the run period.
- Mount on Q795A Subbase with two captive screws.
- Provides all electrical connections between the device and subbase.
- Access to wiring terminals for testing.
- Integral solid state color-coded flame amplifiers.
- Field-selectable ten or four second trial for pilot flame ignition.
- Field-selectable recycle or lockout on flame failure.

Conversion Wiring Chart for R7795A-D

You can easily convert the following model primaries and programmers to the R7795A,B,C or D by following the step-by-step instructions listed below.

Honeywell	RA890, R4795	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 Q795A 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 R7795, the wire marked “A” would connect to terminal #9 on the Q795. The wire marked “8” would connect to Q795 terminal #8.
7. A superscript letter, such as “[a]” designates a footnote. Study these footnotes carefully.
8. Plug in the R7795. Make sure you select the proper ST795A Purge Timer and Detector for the application.
9. There are 2 wires on the amplifier section of the R7795, which are used to select the desired trial for ignition timing and mode (lock-out or recycle). Refer to the R7795 instruction sheet (form 66-2001) 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 R7795, 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	Fireye Device to be Replaced	Replace With
RA890E,F	R7795B	TFM1,2,3H	R7795B
RA890G	R7795A	UVM1,2,3,3H	R7795A
R4795A,D/W-R7290 AMP		UVM5	R7795C
R4795A,D/W-R7289 AMP	R7795B		
R4140P	R7795C,D		
R4140Y	R7795A,B		

CONVERSION CHART FOR R7795 120 VOLT ONLY

Q795 TERMINAL	L1	L2	3	5	6	7	8	9	16	18	F	G
Programmer to be Converted												
RA890 (All)	1[a]	2	[b]	3[d]	5	—	[d,b]	[c]	6	4	F	G
R4795 (All)	[a]	2	6[b]	3	5	—	8, 7	[c]	1	4	F	G
R4140P	L1	L2	P	5	7	6	M	A	3	—	S1	S2
R4140Y	L1	L2	3	6	7	—	8	9	4	5	F[e]	G
Fireye: UVM/TFM (All models)/MII	1	1	6	3	5	—	8	A	7	4	S2[f]	S1
UVM-1 (Prior to 1968)	[a]	2	[b]	3	5	—	[d,b]	A	1	4	S[f]	S
UVM-2 (Prior to 1968), All others	[a]	2	6	3	5	—	8	A	1	4	S[f]	S

[a] Connect power to terminal L1.

[b] If no airflow switch is used, jumper Q795 terminal 3 to 8.

[c] Replace low voltage alarm (if used) with line voltage alarm. Connect alarm directly to Q795 terminal 9.

[d] On power burners, identify burner motor wire on terminal 3 and connect it to Q795 terminal 8.

[e] R7795 uses only rectification or U.V. detectors. All other detectors must be converted to these types.

[F]On UVM models, the detector must be changed to a Honeywell C7027 or C7035.