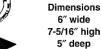


FORM 7256

- Compact Design.
- Time Proven Plug-In Solid State FLAME-PAK Amplifier.
- Plug-In, Interchangeable Relays.
- Plug-In Power Transformer.
- Flame Rod and/or Ultra-Violet Sensing. Independent or simultaneously using same FLAME-PAK Amplifier.







Open
Dimensions
6" wide
6" high
5" deep

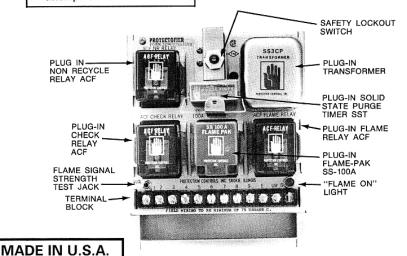
Enclosed

IRI ACCEPTED

- Solid State Plug-In Purge
- Timer Available in 15, 30, 60 and 90 Seconds. (Form 7256-BTNR)
- Safe Start Check on each light-off cycle.
- High Flame Signals minimize nuisance shutdowns.
- "NR" indicates automatic models provided with additional relay to prevent re-light attempt on flame failure.



FORM 7256-BTNRE



SPECIFICATIONS:

Ambient temperature: minus 20° to plus 140° F

Flame response: 2 to 4 seconds (0.8 sec. available)

Voltage/Frequency:

120V AC ± 10%, 50-60 Hz

Voltage at E terminal to ground: 390V AC

Voltage at UV terminal to ground: 590V AC

Power consumption: 35 VA or less

Rating: 125 VA pilot duty

COMPONENTS

CHECK RELAY (ACF): The plug-in relay makes certain that the PROTECTOFIER is functioning properly. It is energized thru NC contacts of the Flame Relay. Failure of the Check Relay to prove safe-start check will prevent ignition and energizing of the fuel valve.

FLAME-PAK (SS100A): The plug-in electronic amplifier provides immediate response via the flame rectification principle. Sensing is achieved either by (1) a flame rod which creates a DC signal to the FLAME-PAK, or by (2) the P-C II U-V Scanner in which a DC signal is developed by an ultra-violet sensitive tube. In either system if the signal from the flame to the FLAME-PAK is interrupted, the fuel valves are de-energized, and an alarm circuit can be energized if required.

FLAME RELAY (ACF): The plug-in relay responds to FLAME-PAK operation energizing the circuit to the fuel valves.

<u>TEST JACK:</u> Provides convenient checking of input signal by placing a DC microammeter in series with the flame rod or P-C II Ultra-Violet Scanner.

FLAME ROD OR ULTRA-VIOLET SCANNER (P-C II): (either or both can operate in the same PROTECTO-FIER system). The P-C II Ultra-Violet Scanner can be used with gas or oil flame. It is compact, containing only an ultra-violet sensing tube for direct 2-wire connection to the PROTECTOFIER.

TRANSFORMER (SS3CP): Provides low voltage for FLAME-PAK circuit and power source for "E" and "UV" terminals.

FLAME RESPONSE LIGHT: Neon indicator bulb energized with flame present.



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FORM 7256

MODELS AVAILABLE

Designation and Function 120V 50-60 Hz Single Burner

FORM DESIGNATION	МАМИДА	AUTOMA	Punge	I MAN TO SO	HEOLOGIE ON THE WANNIE FALLOW	ACTIVE E ON	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7256-AHE	×	_	_	_		_	×	
7256-BE	×	×	_	15 sec	_	×	-	
7256-BHE	×	×	_	15 sec	_	×	×	
7256-BNRE	_	×	_	15 sec	_	_	_	
7256-BNRHE	-	×	_	15 sec	_	_	$ \times $	
7256-BT * NRE	_	×	*×	*×	_	_	-	
7256-BT * NRHE	_	×	*×	*×	_	_	×	
Above models with "E" suffix are enclosed. Omit "E" suffix for open style.								

Models with suffix "T" in Form number are provided with a plug-in "SST" purge timer to provide for fixed pre-purged cycle. Timing ranges available are listed in Table 1 below.

TABLE 1

SST PURGE TIMER				
DESIGNATION	PURGE CYCLE***			
SST-15	15 sec.			
SST-30	30 sec.			
SST-60	60 sec.			
SST-90	90 sec.			

INSTALLATION, OPERATION AND MAINTENANCE SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, NATIONAL AND LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION. ANY MODIFICATION VOIDS APPROVALS.

TABLE 2

TIMING SCHEDULE—TIME IN SECONDS				
*	PURGE***	IGN TRIAL		
15-5	15	5		
15-10	15	10		
15-15	15	15		
30-5	30	5		
30-10	30	10		
30-15	30	15		
60-5	60	5		
60-10	60	10		
60-15	60	15		
90-5	90	5		
90-10	90	10		
90-15	90	15		

^{***}Purge time shall allow system to have a minimum of four fresh air changes.

^{*}Purge and trial for ignition cycle. Select from timing schedule in Table 2 below.

^{**15} second trial for ignition standard, 5 second and 10 second also available—specify.

PROTECTOFIER

FORM 7256 COMBUSTION SAFEGUARDS Single Burner

FORM				
7256-AH (open-type model for panel mounting) \$302.75				
7256-AHE (enclosed model) 336.25				
15 SEC. IGN. TRIAL**	10 SEC. IGN. TRIAL**	5 SEC. IGN. TRIAL**		
7256-B	7256-B10	7256-B5	367.75	
7256-BE	7256-B10E	7256-B5E	401.25	
7256-BH	7256-B10H	7256-B5H	382.75	
7256-BHE	7256-B10HE	7256-B5HE	416.25	
7256-BNR	7256-B10NR	7256-B5NR	463.25	
7256-BNRE	7256-B10NRE	7256-B5NRE	496.75	
7256-BNRH	7256-B10NRH	7256-B5NRH	478.25	
7256-BNRHE	7256-B10NRHE	7256-B5NRHE	511.75	
7256-BT*-15NR	7256-BT*-10NR	7256-BT*-5NR	568.50	
7256-BT*-15NRE	7256-BT*-10NRE	7256-BT*-5NRE	602.00	
7256-BT*-15NRH	7256-BT*-10NRH	7256-BT*-5NRH	583.50	
7256-BT*-15NRHE	7256-BT*-10NRHE	7256-BT*-5NRHE	617.00	
200V or 230V 50-60 Hz (for export applications only) N.E.C. requires 115V Add 15% to base price.				
	Purge Timer (*specifytiming-		125.50	

[&]quot;A" indicates basic combustion safeguard model.

"T" (TIMER) indicates purge timer model. *SPECIFY purge timing - (15, 30, 60, and 90 seconds available.) Purge time shall allow system to have a minimum of four fresh air changes.

All PROTECTOFIER models operate with flame rod (flame rectification principle) and/or PC-II U-V Scanner.

PROTECTOFIER prices include all plug-in components and are shipped only as complete units.

See Bulletin P-1178 and Service Manual PSM-1187.

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e-mail@protectioncontrolsinc.com www.protectioncontrolsinc.com

^{**}B (BREAKER) indicates lock-out switch model. Required for automatic lighted installations. System "latches-out" after failure to light within ignition trial time and cannot attempt re-start until switch is manually reset. Standard ignition trial time is 15 seconds, also available in 10 seconds, and 5 seconds. SPECIFY.

[&]quot;E" (ENCLOSED) indicates enclosed model.

[&]quot;H" (HORN) indictes alarm contact model.

[&]quot;NR" (NON-RELIGHT) indicates non-relight model.