



**SINGLE BURNER
SOLID STATE**

FORM 7256

Protectofier

COMBUSTION SAFEGUARD

Operates with **FLAME ROD**
and/or
P C "II" (Ultra-Violet) SCANNER

- 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.



IRI APPROVED
(formerly FIA)

FORM 7256-BTNRE

Dimensions
6" wide
7-5/16" high
5" deep



SPECIFICATIONS

Ambient temperature: Minus 20° to 125°F
 Flame response: 2 to 4 seconds
 Voltage/
 Frequency: 120v AC ±10%, 60 Hz
 Voltage at E
 to ground: 390v AC
 Voltage at UV
 to ground: 590v AC
 Power consumption: 40 VA
 Rating: 125VA pilot duty

- 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.

COMPONENTS

CHECK RELAY (ACF, plug-in type) makes certain that 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 opening of 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 PC"II" Scanner in which a DC signal is developed by an ultra-violet sensitive tube. In either system if the signal from the flame to Flame-Pak is interrupted, the circuit to the fuel valves is broken, and can energize an alarm circuit if required.

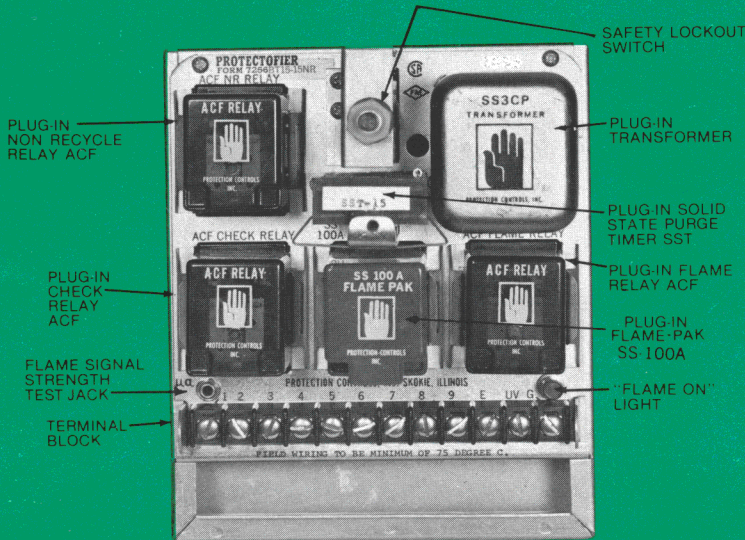
FLAME RELAY (ACF, plug-in type) responds to Flame-Pak operation energizing circuit to fuel valve.

TEST JACK provides convenient checking of input signal by placing a DC microammeter in series with the flame-rod or ultra-violet detector.

FLAME-ROD OR ULTRA-VIOLET SCANNER: (either or both can operate in the same Protectofier system.) The PC"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 Protectofier.

TRANSFORMER: 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.



PROTECTION CONTROLS, INC.

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FORM 7256

MODELS AVAILABLE

Designation and Function
120V 50/60 Hz
Single Burner

FORM DESIGNATION	MANUAL	AUTOMATIC	PURGE	LIMITED TRIAL FOR IGNITION	RECYCLE ON FLAME FAILURE	RECYCLE ON FLAME FAILURE AUTOMATIC	FLAME FAILURE ALARM
7256-AHE	X	-	-	-	-	-	X
7256-BE	X	X	-	15 sec	-	X	-
7256-B10E	X	X	-	10 sec	-	X	-
7256-B5E	X	X	-	5 sec	-	X	-
7256-BHE	X	X	-	15 sec	-	X	X
7256-B10HE	X	X	-	10 sec	-	X	X
7256-B5HE	X	X	-	5 sec	-	X	X
7256-BNRE	-	X	-	15 sec	-	-	-
7256-B10NRE	-	X	-	10 sec	-	-	-
7256-B5NRE	-	X	-	5 sec	-	-	-
7256-BNRHE	-	X	-	15 sec	-	-	X
7256-B10NRHE	-	X	-	10 sec	-	-	X
7256-B5NRHE	-	X	-	5 sec	-	-	X
7256-BT * NRE	-	X	*X	*X	-	-	-
7256-BT *NRHE	-	X	*X	*X	-	-	X

All models feature safe-start check. All models operate with Flame Rod connected to terminal "E" or with P-C "II" Ultra Violet Scanner connected to terminal "UV".

Models with suffix "T" in Form number are provided with a plug-in type "SST" purge timer to provide for fixed pre-purge cycle.

Timing ranges available are listed in table below.

*Purge and trial for ignition cycle. Select from timing schedule.

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

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

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