

# Burner PRO

## TECHNICAL SPECIFICATIONS

<b>Supply Voltage:</b>	BP110UVFR 110 VAC (+20%, -15%) 50/60Hz BP230UVFR 230 VAC (+10%, -15%) 50/60Hz
<b>Power Consumption:</b>	7 VA
<b>Temperature Rating:</b>	Operating -40°C to +60°C (-40°F to 140°F) Storage -50°C to +85°C (-58°F to 185°F)
<b>Protection Category:</b>	IP40 (except wiring base)
<b>Dimensions:</b>	
<b>Control Unit:</b>	4.0" (102mm) L x 4.0" (102mm) W x 4.4" (112mm) H (without base) 4.15" (105mm) L x 4.15" (105mm) W x 5.0" (127mm) H (with base)
<b>Weight:</b>	2.5 lbs (1.13kg)

The BurnerPRO provides the proper burner sequencing, ignition and continuous flame monitoring for commercial heating and process equipment firing oil and gas fuels. The system is designed for use in non-permanent operations that requires burner recycle at least once every 24 hours when used with a UV sensor and permanent operation when used with a Flame Rod. Eight SMART LEDs provide current operating status and lockout information in the event of a safety shutdown.

BurnerPRO BP110UVFR-S1, S2, S3, S4 and BP230UVFR-S1, S2, S3, S4 controls are functionally compatible with select Siemens LFL control models. Use existing wiring base with no external wiring changes. The controls are also functionally compatible with Satronic TMG740 controls with minor wiring changes. See the reverse side for compatibility listings.

## BurnerPRO Flame Safeguard Control



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## REPLACING EXISTING SIEMENS LFL BURNER CONTROL

BurnerPRO is functionally compatible with the following LFL models:

LFL	BURNERPRO
LFL1.322	BP230UVFR-S1
LFL1.322-110V	BP110UVFR-S1
LFL1.333	BP230UVFR-S2
LFL1.333-110V	BP110UVFR-S2
LFL1.335	BP230UVFR-S3
LFL1.335-110V	BP110UVFR-S3
LFL1.635	BP230UVFR-S4
LFL1.635-110V	BP110UVFR-S4

Replacing an existing LFL is quite simple by following this procedure:

1. Identify/Order the equivalent BurnerPRO version for replacement.
2. Identify/Order the BurnerPRO scanner that fits the environment (UV90L-1, UV5-1 or UV1AL-3/6). (Fig 1)
3. Remove the LFL control from its wiring base. Install the grounding leash to the LFL wiring base provided in the shipping box. (Fig 2, Note 1)
4. Remove Earth ground wire/reference to terminal 22. BurnerPRO will drive the S1 & S2 signals to the UV scanner. (Fig 2, Note 2)
5. Install the BurnerPRO control.

Fig 1. UV Scanners



## REPLACING EXISTING SATRONIC TMG BURNER CONTROL

BurnerPRO is functionally compatible with the following TMG models:

TMG	BURNERPRO
TMG 740-1/2/3 model 32-32	BP230UVFR-S2
TMG 740-1/2/3 model 45-54	BP230UVFR-S3

Replacing an existing TMG can be accomplished by following this procedure:

1. Identify/Order the equivalent BurnerPRO version for replacement
2. Identify/Order the BurnerPRO scanner that fits the environment (UV90L-1, UV5-1 or UV1AL-3/6).
3. Order the Fireeye wiring base 60-2981-1.(Fig 2)
4. In the control cabinet, remove the TMG control and wiring base.
5. Install the Fireeye wiring base and attach the wires as recommended by the Fireeye technical bulletin. Make sure a solid ground connection is provided to the base.
6. Install the BurnerPRO control.
7. On the main burner, locate the existing UV scanner and replace with the BurnerPRO scanner.

Fig 2. Wiring Base w/ground tab

