



FIREYE[®] E120 FLAME-MONITOR[™] AND EB701 CHASSIS 220 VAC OPERATION

Year 2000 Compliant in accordance with BSI document DISC PD2000-I:1998

DESCRIPTION

The Fireye E120 FLAME-MONITOR[™] is a 220 VAC version of the E110 Flame Safeguard control and can serve as a replacement for the 70D21. It is compatible with all programmer modules (EP and EPD style), amplifier modules, and display modules (ED510 and ED500) that operate with the E110 Flame-Monitor.

The E120 provides the same functions as the E110 described in bulletin E-1101, except that it operates at 220 VAC (242 VAC max., 187 VAC min.), 50/60 Hz. The maximum VA load ratings are the same as described in bulletin E-1101. The burner/blower motor ratings for the E120 and EB701 are 4.9 F.L.A., 29.4 L.R.A.

The agency approvals listed for the E110 control do not apply to the E120 or EB701.

The E120 consists of the following:

- EB701 chassis (220 VAC operation)
- EC600 dust cover
- 48-1836 mounting screw



CAUTION: The E120 flame safeguard control and EB701 chassis operate on a circuit supply voltage of 220 VAC. All auxiliary devices (e.g. blower motor, limit switches, fuel valves, etc.) installed to operate with the control must be rated for 220 VAC operation.



CAUTION: All current U.S. approval bodies, codes, and regulations require the control circuit supply voltage for flame safeguard control systems shall be a maximum of 120 VAC with one side grounded.

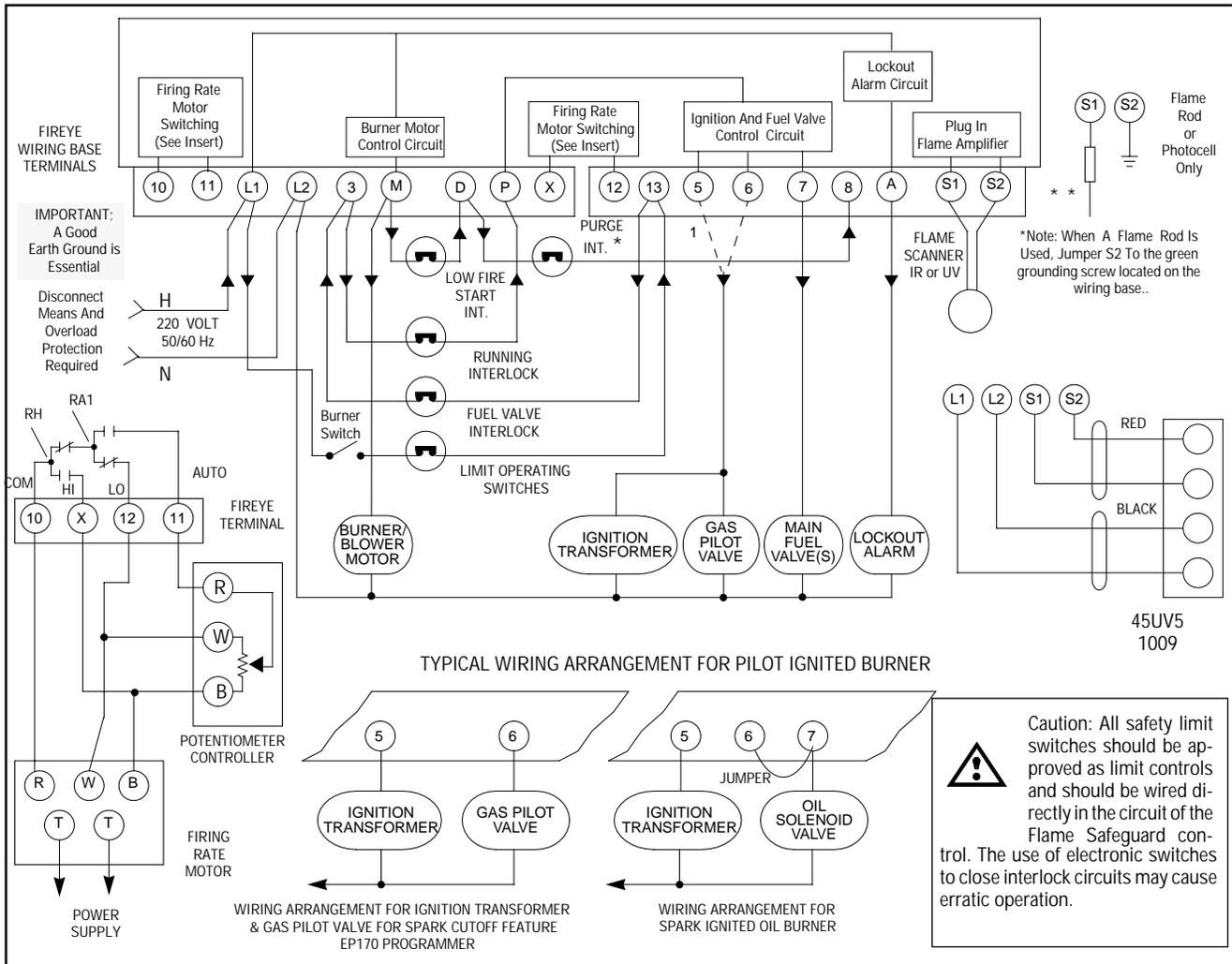
The E120 and EB701 control is not approved by any U.S. approval agencies (Underwriter's Laboratories, Factory Mutual, Industrial Risk Insurers).



CAUTION: When using Expansion Module E320, all interlocks must be wired in accordance with Expansion Module E300. Refer to bulletin E-3001.



SUGGESTED WIRING DIAGRAM FOR EP160, EP161, EP165, EP170 PROGRAMMERS



Part No.	Purge ¹	Ignition Timing			FFRT ²
			PTFI	MTFI	
EP160	30 Sec.	Term 5	10 Sec.	10 Sec.	4 Sec.
		Term 6	10 Sec.	15 Sec.	
EP161	30 Sec.	Term 5	10 Sec.	10 Sec.	4 Sec.
		Term 6	10 Sec.	30 Sec.	
EP165 ⁴	30 Sec.	Term 5	10 Sec.	—	2 Sec.
		Term 6	10 Sec.	15 Sec. ³	
EP170	30 Sec.	Term 5	5 Sec.	—	4 Sec.
		Term 6	10 Sec.	10 Sec.	

¹ Purge timings are adjustable. See "Dipswitches — Purge Timing."
² FFRT is the Flame Failure Response Time.
³ During MTFI, terminal 6 is energized for 5 seconds (pilot stabilization) before energizing terminal 7 for EP165 only.
⁴ EP 165 will lockout in the event of a power interruption.



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