



SPECIFICATION DATA EP380 PROGRAMMER MODULE

Features

- **Selectable Operation.** The dipswitches allow easy replacement of the EP260, EP261 (Extended MTFI), EP270 (Early Spark Termination), and EP265 (Pilot Stabilization) programmers.
- **Selectable Purge Timings.** Purge Timings easily selectable from 30 seconds to 30 minutes using dipswitches.
- **Air Flow Proven Open To Start.** This feature can be enabled or disabled using the dipswitches.
- **Compatible with ED510.** Use with the display module ED510. (See Bulletin ED-510-SPEC for more information.)
- **Backward compatible.** Easy to upgrade with all existing FLAME-MONITOR controls.
- **Continuous Status Indication.** as well as diagnostic information.

Application

The Fireye EP380 Programmer Module is used with the FLAME-MONITOR™ Burner Management Control System (P/N's E100 and E110). The EP380 provides start-up programming, safe start check, and flame monitoring supervision. It insures proof of low fire position, and fuel valve end switch safety checks. The control is designed to initiate a safety lockout if any of these circuits open at the improper point in the control cycle. A running interlock circuit on the FLAME-MONITOR system constantly monitors the limit switches, air flow switches, and fuel pressure switches through the programmer. A modulator (firing rate motor) circuit is not provided on the EP380 Programmer Module.

The programmer module will de-energize all fuel valve circuits within four (4) seconds (max.) following a flame failure or at the end of the pilot trial for ignition period if no flame is detected. An alarm circuit will be energized following a safety lockout.

The EP380 programmer is the heart of the



FLAME-MONITOR System and incorporates a plug-in design for ease of installation. It is micro-processor based that provides a continuous readout of the operating status of the FLAME-MONITOR control. It also stores the burner cycle and on-time history, lock-out history (with burner cycle and burner hour time stamp) that is accessible with the ED510 alphanumeric display or E500 Communication Interface. If replaced, the new programmer card will begin accumulating a new history.

Ordering Information

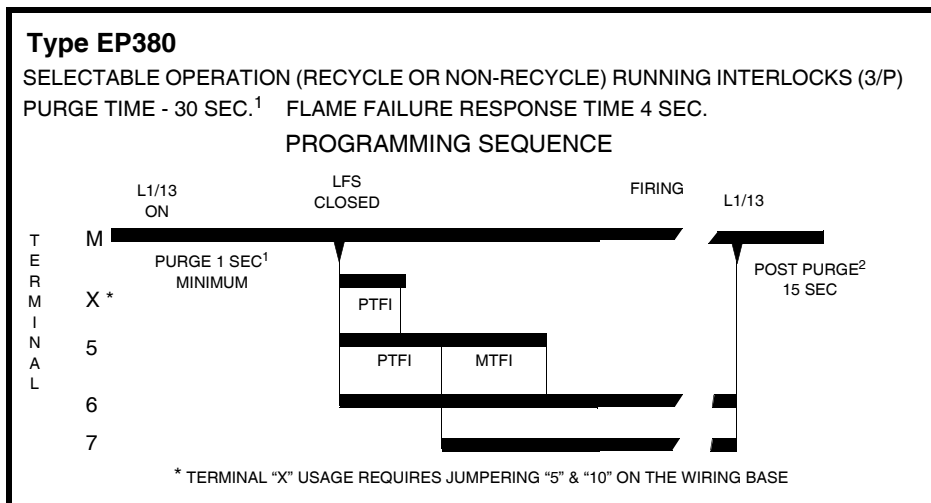
The **EP380** Programmer module with selectable operation is used to replace **EP380**, **EP381** (15 second purge), **EP382** (1 second purge), and **EP390** (90 second purge) programmer modules.

Description of Dipswitch Functions

DIPSWITCH POSITION						FUNCTION
U = UP		DN = DOWN				
1	2	3	4	5	6	
Dn						Recycle on 3-P Open
Up						Non Recycle on 3-P Open
	Dn					15 Sec Post
	Up					10 Sec Purge
		Dn	Dn	Dn		30 sec.— EP380
		Dn	Dn	Up		1 sec.— EP382
		Dn	Up	Dn		5 sec. Selectable High Fire Purge Timing
		Dn	Up	Up		15 min. — EP381
		Up	Dn	Dn		90 min.— EP390
		Up	Dn	Up		2 min. Low Fire Purge Timing 30 sec. (min.)
		Up	Up	Dn		5 min.
		Up	Up	Up		10 min.
					Dn	Prove 3-P Open DISABLED
					Up	Prove 3-P Open ENABLED

Timing Chart for EP380

Refer to Bulletin EP-3801 for dipswitch settings and timing charts of EP380 configured as EP381 (15 second purge), EP382 (1 second purge), and EP390 (90 second purge).



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