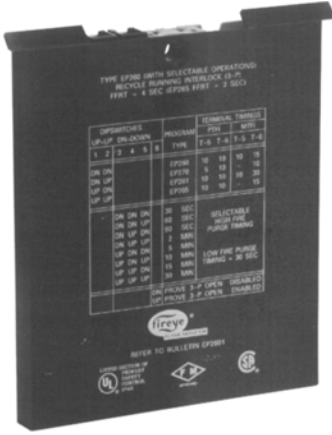


## EP PROGRAMMER MODULES

## Bulletins EP1601, EP2601, EP3801



The Fireye EP Programmer Modules are used with the E100 and E110 Flame-Monitor controls. They provide start-up programming, safe-start-check, and flame monitoring supervision. They provide high-fire purge interlock (EP100 series only), low-fire start position and fuel valve end-switch safety checks. A running interlock circuit monitors the limit switches, air flow switches, and fuel pressure switches.

The EP programmers de-energize all fuel valve circuits with 4 seconds (max.) following a flame failure (2 seconds for the EP165, EP166, EP265), or at the end of the pilot-trial-for-ignition period if no flame is detected. A modulator motor circuit is provided (EP100 and EP200 series only). The programmers have a Check-Run switch to stop the control sequence to aid in the set-up and check out of the burner and its associated interlocks. The programmers store the burner cycles, hours, and lockout history.

The EP programmers offer the following selectable functions: purge timing, prove the Running Interlock circuit is open at the start of the cycle, recycle or non-recycle operation (EP300 series only), intermittent or interrupted operation of terminal 6 (EP300 series only). The programmers include an RJ45 connector for the ED510 display module, and two RJ12 connectors for Modbus Communications.

PART NUMBER	DESCRIPTION
EP160	30 Sec. Purge, 10 & 15 Sec. TFI, 4 Sec FFRT, Non-Recycle, Modulation
EP161	30 Sec. Purge, 10 & 30 Sec. TFI, 4 Sec FFRT, Non-Recycle, Modulation
EP163	Selectable Purge (30 sec min.), selectable TFI via ED510 display, Non-Recycle.
EP165	30 Sec. Purge, 10 Sec. TFI, 2 Sec FFRT, Pilot Stabilization, Non-Recycle, Modulation.
EP166	Selectable Purge (30 sec min.), Pilot Stabilization, Non-Recycle, 10 and 15 sec TFI programmer.
EP170	30 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Early Spark Termination, Non-Recycle, Modulation
EP174	Selectable Purge (30 sec min.), 5 and 10 sec. TFI, Non-Recycle, Early Spark Termination. M-D circuit must be proven through the completion of MTFI.
EP177	Early Spark Termination. ED510 to Select Purge (30 sec min.), Prove Air Flow, Prove High Fire, Prove Low Fire, and Post Purge. Early Spark Termination. Infinite Hold on M-D circuit.
EP100F	Selectable Purge, Selectable TFI, 4 Sec FFRT, Non-Recycle, Modulation, French language.
EP100S	Selectable Purge, Selectable TFI, 4 Sec FFRT, Non-Recycle, Modulation, Spanish language.
EP260	30 Sec. Purge, 10 & 15 Sec. TFI, 4 Sec FFRT, Recycle, Modulation
EP265	30 Sec. Purge, 10 & 15 Sec. TFI, 2 Sec FFRT, Pilot Stabilization, Recycle, Modulation.
EP270	30 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Early Spark Termination, Recycle, Modulation
EP200F	Selectable Purge, Selectable TFI, 4 Sec FFRT, Recycle, Modulation, French language.
EP200S	Selectable Purge, Selectable TFI, 4 Sec FFRT, Recycle, Modulation, Spanish language.
EP380	30 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Recycle, No Modulation
EP381	15 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Recycle, No Modulation
EP382	0 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Recycle, No Modulation
EP383	Selectable Purge, 5 and 10 Sec. TFI, Selectable Recycle / Non-Recycle via ED510, No Modulation, No Agency Approvals.
EP387	Selectable Purge (15 sec. min.), Selectable TFI, Selectable Recycle / Non-Recycle, No Modulation, infinite hold on M-D circuit.
EP390	90 Sec. Purge, 5 & 10 Sec. TFI, 4 Sec FFRT, Recycle, No Modulation
EP300F	4 Sec FFRT, Selectable Purge, Selectable Recycle, Non-Recycle, No Modulation, French language.
EP300S	4 Sec FFRT, Selectable Purge, Selectable Recycle, Non-Recycle, No Modulation, Spanish language.

### PROGRAMMERS FOR USE WITH INTEGRATED FLAME SCANNERS

EP178	Keypad adjustable purge time, PTFI, MTFI, post purge, early spark termination, pilot proving period, and indefinite hold on low fire start. Non-Recycle, Modulation. For use with EDC1 and EDC2 amplifiers and 85UVF4-1QDWR, 85IRF4-1QDWR, or InSight scanners (with 59-497-020WR cable).
EP378	Keypad adjustable purge time, PTFI, MTFI, post purge, early spark termination, pilot proving period, and indefinite hold on low fire start. Selectable Recycle, Non-Recycle. No modulation. For use with EDC1 and EDC2 amplifiers and 85UVF4-1QDWR, 85IRF4-1QDWR or InSight scanners (with 59-497-020WR cable).