®
fireye

MEP300, MEP304, MEP335 and MEP397 PROGRAMMER MODULES

OPR CTRL
AIR FLOW
PTFI
FLAME
ALARM

RUN
CHECK

SEE WARNING LABEL
DIPSWITCH POSITIONS
OFF ON

PURGE
POST
PTFI
AIR FLOW
RECYCLE

C (UL) US
LISTED

FM
APPROVED

FOR USE WITH THE FIREYE® MODULAR MicroM™ CONTROL TO BE USED

DESCRIPTION

The Fireye MEP300, MEP304, MEP335 and MEP397 Programmer Modules are used with the Fireye Modular MicroM control. The MEP300 series programmers provide additional enhancements such as early spark termination, pilot proving and interrupted or intermittent pilot operation. These programmers must be used with the MEC320 and MEC480 series chassis. The programmer module incorporates a plug-in design for easy installation.

The advantages of the Micro M are zero dependence on discrete components previously used for timing functions. The MicroM, through the use of micro-controller technology, incorporates smart diagnostic LED's, smart reset function for multi-burner applications, optional alpha-numeric display output (ED510) and serial communications via a Modbus Interface. A "check-run" switch is provided on the MEP397 programmer module to assist in testing size and stabilization of the pilot.

Flame Failure Response Time (FFRT) is determined by the selection of the amplifier module. Test jacks are also provided on the flame amplifier module to permit flame signal measurement during operation. For proper and safe application of this product, you must refer to Fireye bulletin MC-5000 for a detailed description of the various programmer modules, including installation instructions, amplifier selection, operating sequences for each programmer module, etc.

⚠ **WARNING: Selection of this control for a particular application should be made by a competent professional, licensed by a state or other government agency. Inappropriate application of this product could result in an unsafe condition hazardous to life and property. Installation should not be considered complete until pilot turndown and other appropriate performance tests have been successfully completed.**

PROGRAMMER MODULE SELECTION

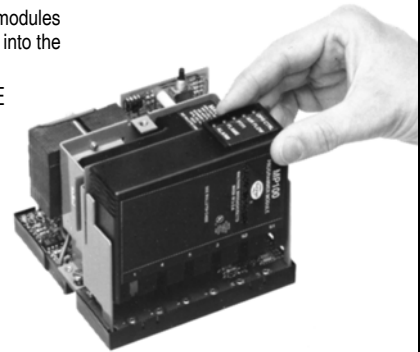| MicroM Programmer Models (For use with MEC320 and MEC480 Chassis)	
MEP300	Relight operation, 10 sec. fixed PTFI, 5 second pilot proving period, 5 second MTFI. lockout on flame fail during PTFI, pilot proving and MTFI. Recycle on air flow open. No post purge. Reset on line voltage.
MEP304	Non-recycle on flame fail, 5 second purge, 10 second fixed PTFI, 5 second pilot proving, 10 second MTFI, interrupted pilot, early spark termination.
MEP335	Non-recycle on flame fail, 30 second purge, 35 second hot surface ignition on terminal 4, 3 second PTFI on terminal 3, 5 second pilot proving period, intermittent pilot, 15 second post purge. Manual reset only.
MEP397	Recycle on main flame fail, 15 second purge, 7 second fixed PTFI, 5 second pilot proving 5 second MTFI, early spark termination and interrupted pilot. Recycle on air flow failure. No post purge, run/check switch. Reset on line voltage.

| ⚠ | **WARNING: Remove power from the control before proceeding.** |

INSTALLATION

The Programmer Modules are used with the Fireye modular MicroM Chassis (P/N MEC320, MEC320RC, MEC320R, MEC320D and MEC320C for 120VAC and MEC480 for 230 VAC). They are installed in the chassis by grabbing hold of the programmer module by the ridged finger grips on the side on the module, aligning the module with the guide slots on the opening farthest from the transformer, and inserting the module into the pin connectors.

The programmer modules are designed to fit into the proper slot only.
DO NOT FORCE THEM

LOCKOUT CODES

MSGN		DESCRIPTION	OP CTRL	AIRFLOW INTLCK	PTFI	FLAME	ALARM
DEC	HEX						
6	6	Lockout Line Frequency Noise Detected	●	❍	❍	●	✻
7	7	Lockout Flame Fail - PTFI	❍	●	●	●	✻
15	0F	Lockout Fault Unknown	●	●	●	●	✻
16	10	Lockout Amplifier High Count Fail	❍	❍	❍	❍	✻
19	13	Lockout Flame Fail - MTFI	❍	❍	●	●	✻
20	14	Lockout False Flame - STANDBY	❍	●	❍	❍	✻
21	15	Lockout Intrlck Open	●	●	●	❍	✻
22	16	Lockout Intrlck Closed	❍	●	●	❍	✻
24	18	Lockout Chassis Opto	●	●	❍	●	✻
37	25	Lockout Flame Fail - AUTO	❍	●	❍	●	✻
39	27	Lockout Fuel Valve State Change	❍	❍	❍	●	✻
54	36	Lockout Check Chassis	❍	❍	❍	●	✻
55	37	Lockout Check Programmer	❍	❍	●	❍	✻
56	38	Lockout Check Amplifier	●	❍	❍	❍	✻
58	3A	Lockout Amplifier Auto Check Fail	●	❍	●	❍	✻
59	3B	Lockout Check BLOWN FUSE	●	❍	●	●	✻
76	4C	Lockout Check Scanner	●	●	❍	❍	✻

❍ = **NOT LIGHTED**
● = **LIGHTED**
✻ = **FLASHING**

All MicroM chassis are shipped with a convenient peel off label that can be applied to any surface (inside cover) for future reference.