



APPLICABLE BULLETINS

E120, Flame-Monitor Chassis, 220 VAC Operation, FM approved	E-1201
Programmers, Non-Recycle Operation	EP-1601, EPD-1601
Programmers, Recycle Operation	EP-2601, EPD-2601
Programmers, Non-Modulating	EP-3801, EPD-3801
Amplifiers	EAMP1
Display, ED510	ED-5101
Expansion Module	E-3001

All bulletins are available in .pdf format at www.fireye.com.

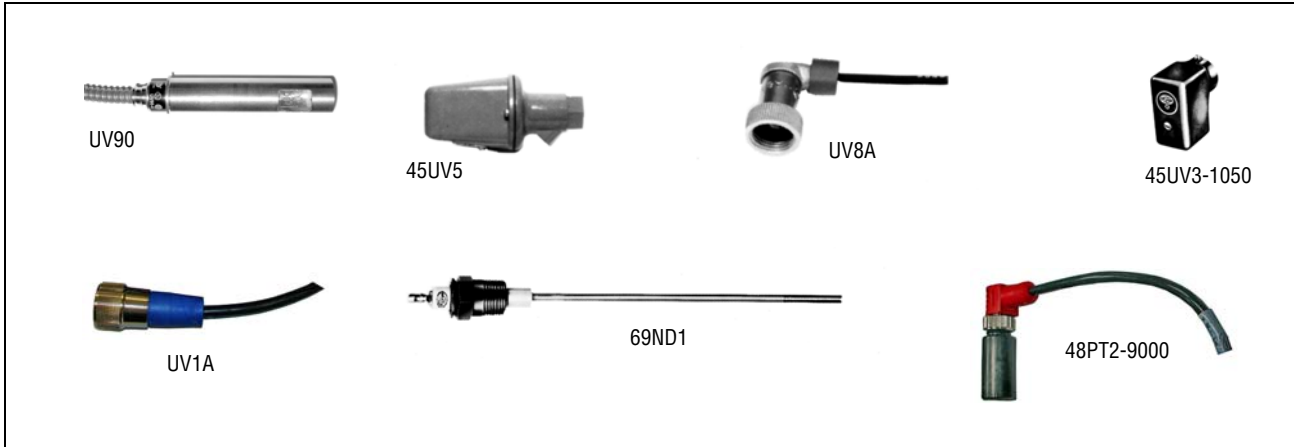
FLAME AMPLIFIER SELECTION

FIREYE P/N	DESCRIPTION	USE WITH SCANNER
EUV1	Standard UV Amplifier	UV1A, UV8A 45UV3, UV2
E1R1	Autocheck Infrared Amplifier	48PT2
E1R2	Autocheck Infrared Amplifier (For special applications - high sensitivity—consult factory)	48PT2
E1R3	Autocheck Infrared Amplifier. (Without oil fog rejection spray circuitry.)	48PT2
ERT1	Rectification Amplifier	69ND1
EUVS4	Self-Check UV Amplifier	45UV5-1007/1008/1009

SCANNER SELECTION

FIREYE P/N	DESCRIPTION	USE WITH SCANNER	BULLETIN
48PT2-1003 48PT2-9003 48PT2-1007 48PT2-9007 4-263-1	Infrared 1/2" straight mount 96" TC-ER Infrared 1/2" 90° angle mount 96" TC-ER Infrared 1/2" straight mount 48" TC-ER Infrared 1/2" 90° angle mount 48" TC-ER Replacement photo detector	E1R1, E1R2, or E1R3	SC-103
UV1A3 UV1A6 UV8A UV2 UV2A6 45UV3-1050 UV90-3 UV90-6 UV90-9	UV 1/2" straight 36" TC-ER cable UV 1/2" straight 72" TC-ER cable UV 1/2" 90° head 72" unshielded leads UV 3/8" straight 36" TC-ER cable UV 3/8" straight 72" TC-ER cable UV 3/4" cast aluminum housing 8" cable UV 90° lateral view with 36" flex conduit UV 90° lateral view with 72" flex conduit UV 90° lateral view with 108" flex conduit	EUV1	SC-102
69ND1-1000K4 69ND1-1000K6 69ND1-1000K8	Flame rod 12", 1/2" N.P.T. mount Flame rod 18", 1/2" N.P.T. mount Flame rod 24", 1/2" N.P.T. mount	ERT1	SC-103
45UV5-1007 45UV5-1008 45UV5-1009 4-314-1	Self-check UV 1" British thread mounts, 230V Self-check UV 1" British thread mounts, 120V Self-check UV 1" N.P.T. threads, 120V Replacement UV tube	EUVS4	SC-101

FLAME SCANNERS



CAUTION: The UV1, UV2, UV8A, UV90 and 45UV3 ultra-violet flame scanners and associated amplifier modules are non-self checking UV systems and should be applied only to burners that cycle often (e.g.: a minimum of once per 12 hours) in order for the safety checking circuit to be exercised. If component checking is required during burner operation for constantly fired burners, utilize the self-checking ultra-violet flame scanners (45UV5) with associated amplifier module (EUVS4), or the infrared flame scanner (48PT2) with associated Auto Check amplifier (E1R1, E1R2, E1R3).

FLAME-MONITOR PROGRAMMER SELECTION

All programmers for the Flame-Monitor Series are designated with the prefix "EP" or "EPD." The functional operation, flame failure response time, purge timings, firing rate motor circuit, trial for ignition timings, recycling function and display messages are determined by the programmer.

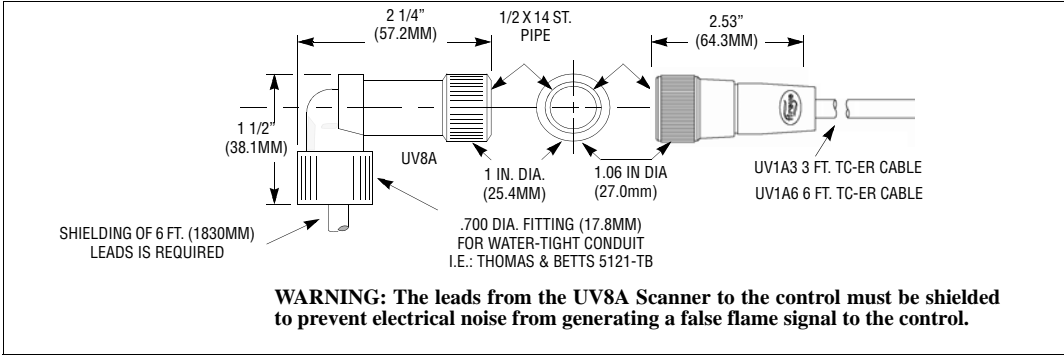
Following is a chart of the most common programmers. Refer to the appropriate product bulletin for a detailed description of the operation of each programmer.

Take note of the programming sequence chart for each programming module for the proper explanation of pre-purge timings.

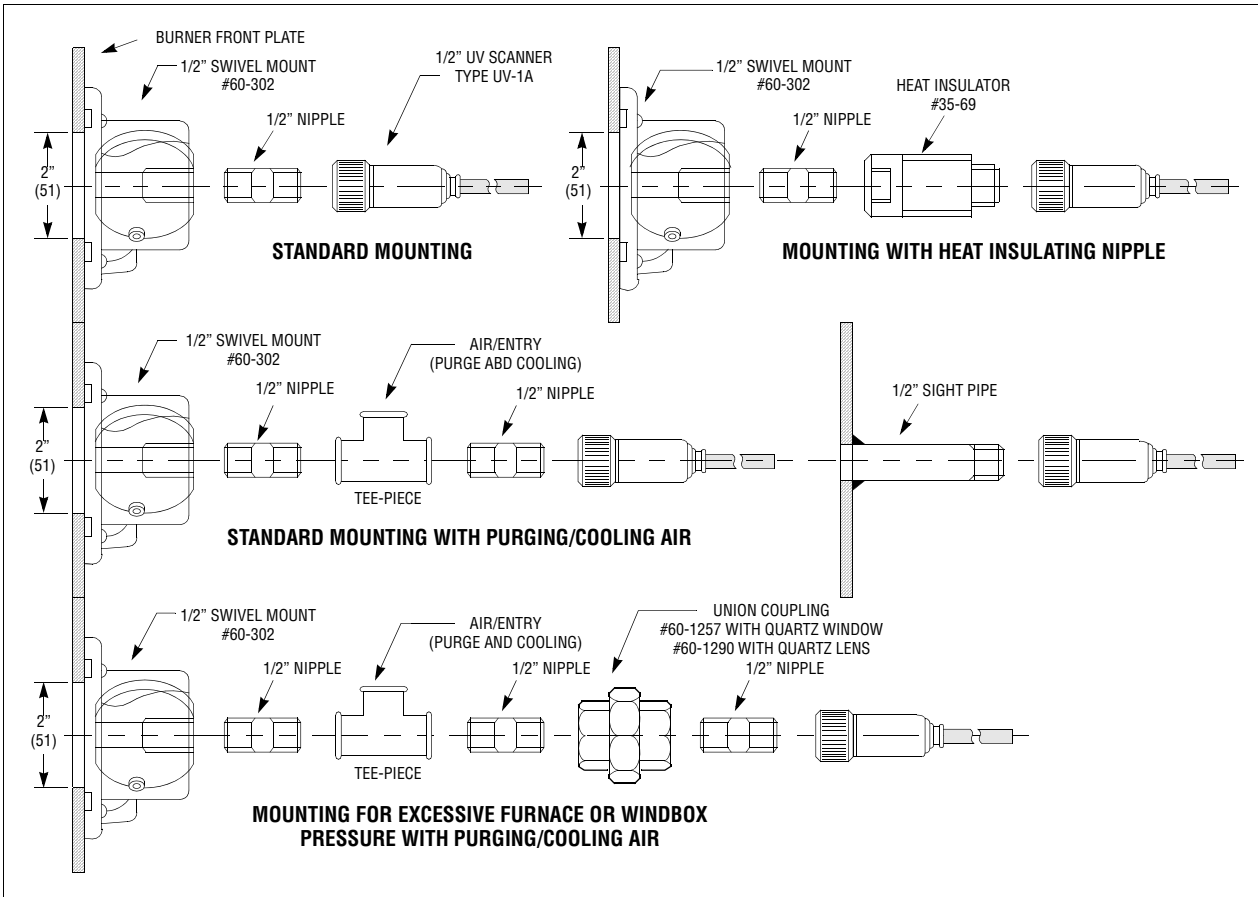


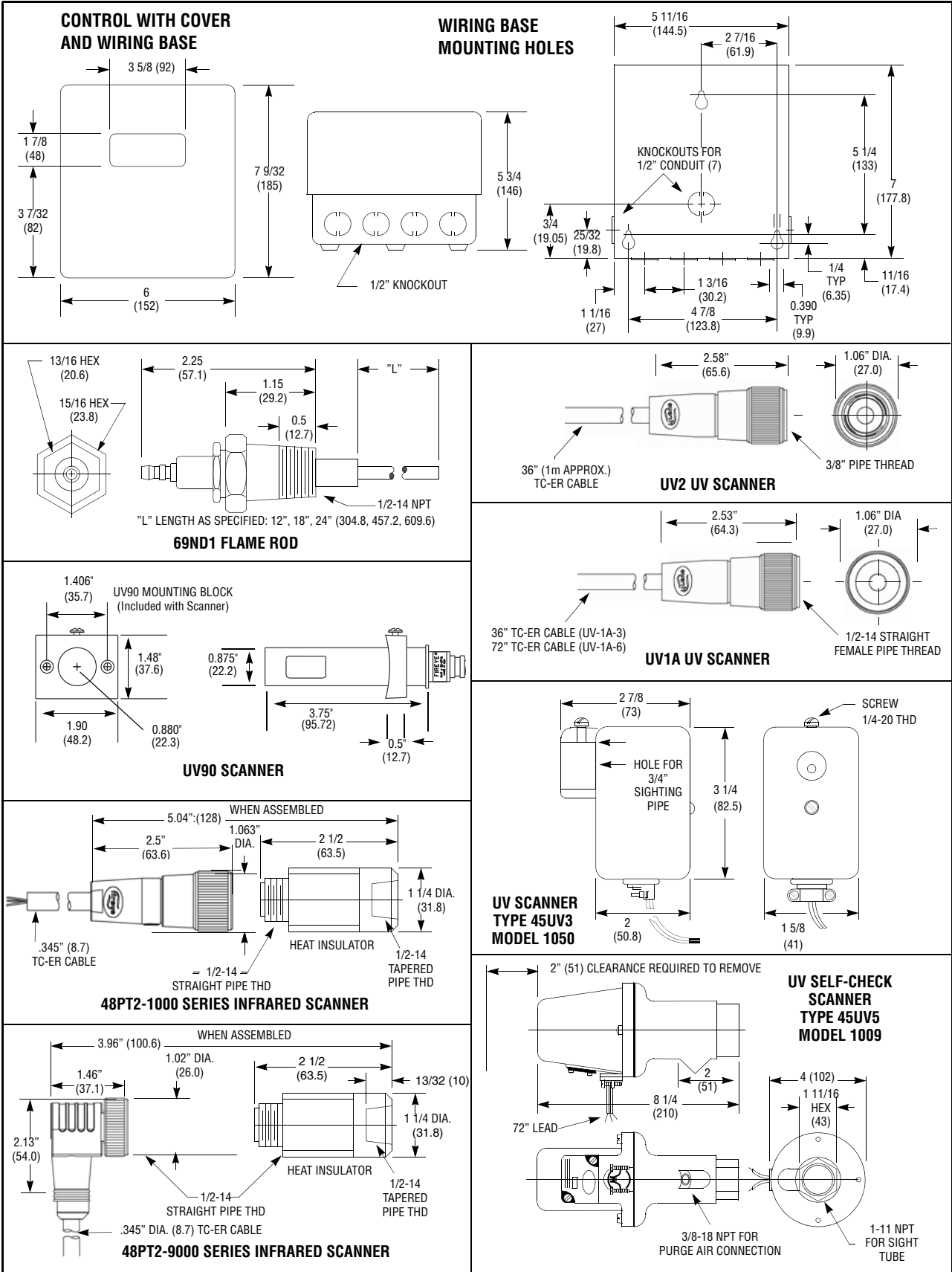
WARNING: THE INAPPROPRIATE SELECTION OR APPLICATION OF A PROGRAMMER MODULE COULD RESULT IN AN UNSAFE CONDITION HAZARDOUS TO LIFE AND PROPERTY. The various programmer modules (EP(D)160, EP(D)260 and EP(D)380) are interchangeable because they plug into a common chassis. Changing the dipswitches modifies the operation of each programmer module. Care should be taken to insure the proper dipswitch settings. Refer to the appropriate programmer bulletin for dipswitch settings. Selection of the programmer module and setting the dipswitches for a particular application should be made by a competent professional, such as a Boiler/Burner technician licensed by a state or government agency, engineering personnel of the burner, boiler or furnace manufacturer (OEM) or in the performance of duties based on the information from the OEM.

UV8A Scanner



Mounting UV1A Scanner





ALL DIMENSIONS IN INCHES (MILLIMETERS IN PARENTHESIS).