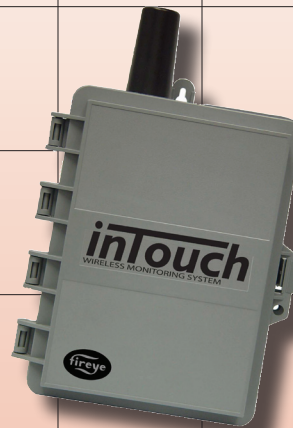
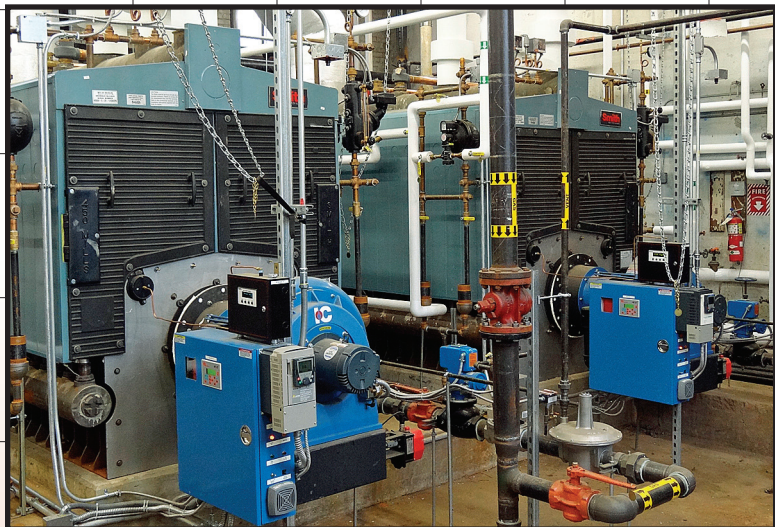


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## FLAME SCANNERS AND APPLICATIONS

The following Fireeye flame scanners are used in conjunction with the appropriate Fireeye flame safeguard controls to provide reliable flame detection on a variety of burner applications and fuel types.

### UV1A



### Bulletin SC-102

Ultraviolet miniature non self-checking scanners. The UV1A is suitable for fuel gases and no. 2 oil. Non-replaceable tube. Mounting collar 1/2" NPT. Available with 3 ft. (UV1A3), 6 ft. (UV1A6), or 50 ft. (UV1A50) of tray-rated cable. Explosion proof housings are available.

### UV90



### Bulletin SC-102

Ultraviolet miniature non self-checking scanner suitable for frontal or side (90°) viewing. Complete with mounting fixture. Available with 3 ft. (UV90-3), 6 ft. (UV90-6), or 9 ft. (UV90-9) of flexible conduit.

### UV2



### Bulletin SC-103

Ultraviolet miniature non self-checking scanner. Similar in function to the UV1A3 but with a smaller mounting collar (3/8"). Non-replaceable tube.

### UV8A



### Bulletin SC-102

A 90° version of the UV1A6, but with unshielded leads and 0.70" diameter collar to be used with a 1/2" E.M.T. rain tight fitting (not furnished). The mounting collar is 1/2" NPT. Must be installed with metal shielding over the scanner leads.

### 45UV5-1005, -1006, -1007, -1009



### Bulletin SC-103

Self-checking ultraviolet scanner is for continuously fired applications where recycling is infrequent or absent. The self-checking circuit checks the electronics and the UV tube for proper operation every four seconds during the firing period. Suitable for fuel gases and oil. Replaceable UV tube and (4-314-1) shutter mechanism (61-2914-1). Mounting 1" NPT or BSP pipe thread with 6 ft. (1.8m) lead wires. Must be installed with metal shielding over the scanner leads. Explosion-proof housings are available for models 45UV5-1005, 45UV5-1007, and 45UV5-1009.

PART NUMBER	DESCRIPTION	USE WITH	BULLETIN
<b>Ultraviolet Scanners</b>			
UV1A-1-CEX	ATEX Exd IIC T6 explosion-proof housing with UV1A scanner.	Flame -Monitor, FlameWorx, MB, C-Series, D-Series, M-Series, M-II Series, MicroM Series with non-self check amplifier.	SC-102
UV1A3	<sup>1</sup> / <sub>2</sub> " NPT Connector, 3 ft. (914mm) tray-rated cable. Non self-checking.		
UV1A6	<sup>1</sup> / <sub>2</sub> " NPT Connector, 6 ft. (1828mm) tray-rated cable. Non self-checking.		
UV1A50	<sup>1</sup> / <sub>2</sub> " NPT Connector, 50 ft. tray-rated cable. Non self-checking.		
UV2	<sup>3</sup> / <sub>8</sub> " NPT Connector, 3 ft. (914mm) tray-rated cable. Non self-checking.		
UV8A	<sup>1</sup> / <sub>2</sub> " NPT 90° head, 6 ft. wire, no cable. Non self-checking.		
UV90-3	UV non-self check scanner for frontal or side (90°) viewing. Complete with mounting fixture and 3 ft. (900mm) flex conduit.		
UV90-6	UV non-self check scanner for frontal or side (90°) viewing. Complete with mounting fixture and 6 ft. (1800mm) flex conduit.		
UV90-9	UV non-self check scanner for frontal or side (90°) viewing. Complete with mounting fixture and 9 ft. (2700mm) flex conduit.		
45UV3-1050	UV Scanner, <sup>3</sup> / <sub>4</sub> " sleeve/set screw mounting. Non self-checking.		
45UV5-1005	UV self-check scanner 1 inch NPT threads. 25VDC shutter circuit.	25RU8-4580, 25SU5-4018 or 61-5745-3 shutter drive module	SC-101
45UV5-1105	Same as -1005 but British threads.	25RU8-4580, 25SU5-4018 or 61-5745-3 shutter drive module	SC-101
45UV5-1006	UV self-check scanner. Use with self-check amplifier only, 1 inch NPT threads.	D-Series, 72DUVS1 only	SC-101
45UV5-1007	UV self-check scanner. Use with self-check amplifier. 1 inch British threads, 120-230 VAC shutter.	Flame-Monitor, C-Series, D-Series, MicroM Series with self-check amplifier.	SC-101
45UV5-1007CEX	ATEX Exd IIC T6 explosion proof housing with 45UV5-1007 scanner.		
45UV5-1009	UV self-check scanner. Use with self-check amplifier. 1 inch NPT threads, 120-230 VAC shutter.		
45UV-1009CEX	ATEX Exd IIC T6 explosion proof housing with 45UV5-1009 scanner.		
45UV5-1009EX	Explosion proof 45UV5-1009. Class I, Div. 1 and 2, Groups C and D. Class 2 Div. 1 and 2, Groups E, F, G.		
<b>Infrared Scanners</b>			
48PT2-CEX	ATEX Exd IIC T6 explosion proof housing with 48PT2 scanner	Flame-Monitor, C-Series, D-Series, MicroM Series with infrared amplifier.	SC-103
48PT2-1003	IR Scanner, 8 ft. (2400mm) tray-rated cable, straight head		
48PT2-1007	IR Scanner, 4 foot (1200mm) tray-rated cable, straight head		
48PT2-9003	48PT2-1003, 8 ft. tray-rated cable with 90° head		
48PT2-9007	48PT2-1007, 4 ft. tray-rated cable with 90° head		
69ND1-1000K4	Flame Rod 12 inches <sup>1</sup> / <sub>2</sub> " mount	Flame -Monitor, FlameWorx, MB, C-Series, D-Series, M-Series, M-II Series, MicroM Series with flame rectification amplifier.	SC-103
69ND1-1000K6	Flame Rod 18 inches <sup>1</sup> / <sub>2</sub> " mount		
69ND1-1000K8	Flame Rod 24 inches <sup>1</sup> / <sub>2</sub> " mount		

<b>PART NUMBER</b>	<b>DESCRIPTION</b>
<b>MBPF-1001</b>	MBPF-100S, 200S, 202S, MB-600PF Sensor Modules
<b>MC-5000</b>	MicroM Controller-Installation Manual
<b>MOPT1</b>	MicroM Plug-In Option Boards
<b>MP-5201</b>	MicroM Programmer Modules
<b>MM-2</b>	Modernization Adapter 60-1765
<b>MTS-1</b>	M-Series II Trouble Shooting Guide
<b>NEX-6101</b>	NEXUS NX6100 Integrated Burner Control System
<b>PPC-6001</b>	PPC6000 fuel air ratio controller
<b>PPC-4001</b>	NEXUS PPC4000 fuel air ratio controller
<b>NEX-3004</b>	Nexus FX04 series 4 Nm servo motor for PPC4000
<b>NEX-3020</b>	Nexus FX20 series 20 Nm servo motor for PPC4000
<b>NEX-3050</b>	Nexus FX50 series 50 Nm servo motor for PPC4000
<b>NXCESO2-1001</b>	Oxygen Probe for PPC4000
<b>133-750</b>	O2 mounting flange installation instructions
<b>NXD-4101</b>	NXD410 user interface
<b>NXCESVFD-1001</b>	VFD plug-in board for PPC4000
<b>SC-101</b>	45UV5-1005, through -1009 Self-checking Scanners
<b>SC-102</b>	UV1A6, UV8A, UV90 Ultraviolet Scanners
<b>SC-103</b>	45UV2, 45UV3, 48PT1, 48PT2, 45CM1, 69ND1 Scanners
<b>SC-107</b>	UV Non Self-Checking Scanner Models:UV7A4, UV7R4 UV & Self-Check Scanner Model:UV7SC
<b>SN-100</b>	Earth Grounding Methods for M-Series II
<b>TSD-1041</b>	TSD Touch Screen Displays for BurnerLogiX control
<b>YBT-1000</b>	57YB4 Tester for BurnerLogiX YB110 controls
<b>YP-1000</b>	YP Programmers for BurnerLogiX control
<b>YZEM-3001</b>	YZ300 / YZ320 Interlock Annunciator for BurnerLogiX control
<b>133-675</b>	129-178-x Remote Display Mounting Kit
<b>133-676</b>	60-2810-1 Pigtail Wiring Base for BurnerLogiX YB control
<b>133-677</b>	60-2812-1 / 60-2814-1 Wiring Bases for BurnerLogiX YB control
<b>133-701</b>	60-2850-1 Pigtail Wiring Base for BurnerLogiX ZB control
<b>133-702</b>	60-2852-1 / 60-2854-1 Wiring Bases for BurnerLogiX ZB control