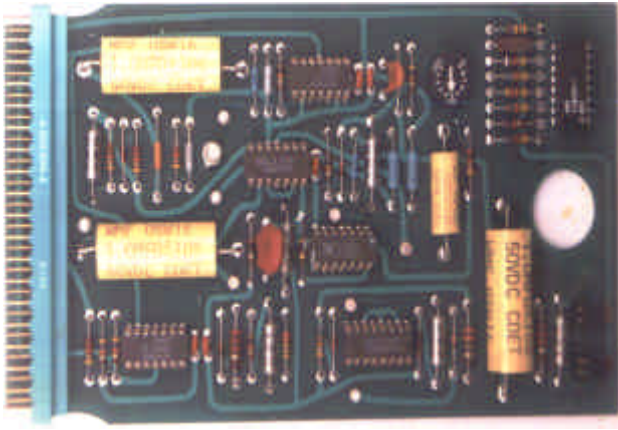
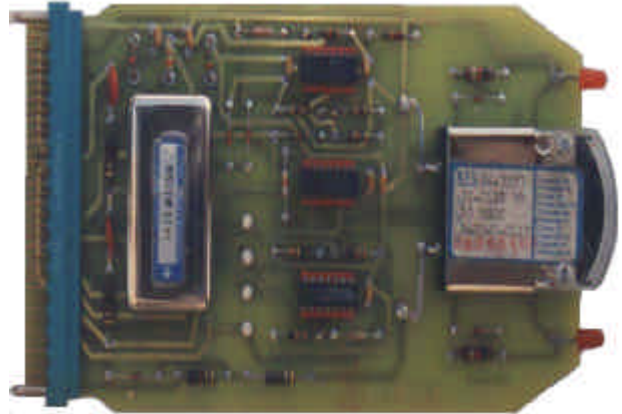




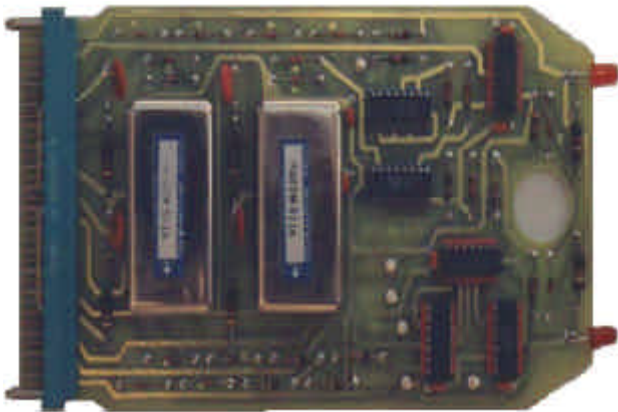
**Frequency Detection card Safe flame**



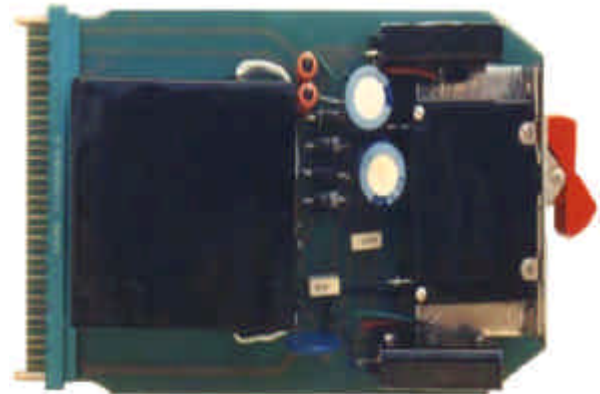
**Lamp & Meter Card for Safe Flame II**



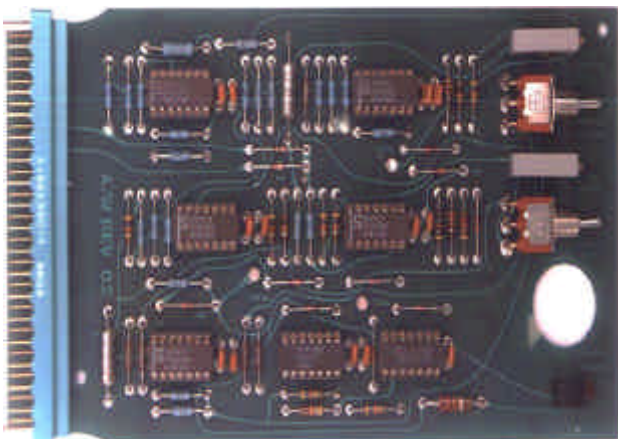
**2/4 Flame Indication & Fault Alarm Card**



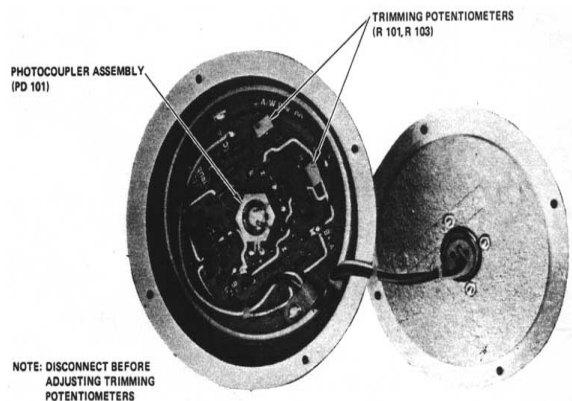
**Power Supply card for Safe Flame II**



**Intensity & Fault Alarm Card for Safe Flame II**



**Scanner Housing Electronics**



## DYNAMIC ENGINEERING

55, Eswardoss Street, Triplicane, Chennai - 600 005  
Phone : 0091-44-28442780, Fax : 0091-44-28446567  
E-mail : dynamicengg@usa.net.

**FIBER OPTIC FLAME SCANNERS**

SAFE SCAN I AMPLIFIER CHASSIS	PART NO: D-20-0-0388
SAFE SCAN II AMPLIFIER CHASSIS	D-20-0-0476
SAFE SCAN I & II FLAME SCANNER HEAD ASSEMBLY (L = 57", .L = 66", .L = 72", .L = 76", .L = 81", .L = 99")	D-982-0141
SAFE SCAN I & II REMOTE FLAME 4 METER ASSEMBLY	C-20-0-0167

**ELECTRONIC MODULE FOR SAFE SCAN I & II FLAME SCANNERS AMPLIFIER**

POWER SUPPLY MODULE	D-984-0582
INTENSITY & FAULT DETECTION MODULE	D-984-0578
FREQUENCY DETECTION MODULE	D-984-0579
LAMP & METER MODULE	D-984-0721
LAMP DRIVE MODULE (SAFE SCAN II ONLY)	D-20-0-0259
2 OUT OF 4 FLAME INDICATION MODULE	D-984-0581
35 PIN CARD EXTENDER	D-984-0284

**SPARES FOR SAFE SCAN I & II FLAME SCANNERS HEAD ASSEMBLY**

COMPRESSION SPRING	A-987-026
PLUG	A-987-030
ADAPTER ASSEMBLY	C-982-0242
DETECTOR HEAD ASSEMBLY	C-984-0663
HOUSING ELECTRONIC CARD	D-984-0577
FLEXIBLE HOSE FOR L=57", 66", 72", 76", 78", 81" & 99"	D-984-0477
GASKET	D-984-0474
FIBER OPTIC CABLE	B-984-0322
LENS BARREL ASSEMBLY	B-984-0318
COLLIMATOR TUBE	A-984-0478
SPACER	A-984-0475
HEXAGON COUPLER ASSEMBLY	B-984-0326
MOUNTING PLATE	A-984-0472
PROTECTOR PLATE	B-984-0316
QUARTZ LENS	A-984-029
CONNECTOR 5 PIN MALE	D-982-037
CONNECTOR 5 PIN FEMALE WITH PIGTAIL CABLE	C-982-0242

**ULTRA VIOLET FLAME SCANNER**

510 FLAME SCANNER AMPLIFIER CHASSIS	D-984-0190
520 FLAME SCANNER AMPLIFIER CHASSIS	D-984-0189
510 FLAME SCANNER HEAD ASSEMBLY .L = 57". WB16"	D-984-0189 (57")
510 FLAME SCANNER HEAD ASSEMBLY .L = 66". WB18"	D-984-0189 (66")
510 FLAME SCANNER HEAD ASSEMBLY .L = 72". WB22"	D-984-0189 (72")
510 FLAME SCANNER HEAD ASSEMBLY .L = 99". WB99"	D-984-0189 (99")
520 FLAME SCANNER HEAD ASSEMBLY .L = 72". WB22"	D-984-0188 (72")
510/520 FLAME SCANNER METER ASSEMBLY 4- METER	D-997-947
510/520 FLAME SCANNER METER ASSEMBLY 8- METER	D-997-948
510/520 REMOTE 4-METER ASSEMBLY (WITH BEZEL & BRACKETS)	

**ELECTRONIC MODULES FOR 510 & 520**

EXTENDER PC BOARD ASSEMBLY	D-997-862-1
510 & 520 POWER SUPPLY MODULE	D-984-0117
510 & 520 FLAME SCANNER TEST MODULE	D-997-832-3
510 & 520 TIMER FAULT PC BOARD MODULE	D-984-0120
510 & 520 MASTER / CHECK TIMER MODULE	D-997-957
510 & 520 2/4 SUMMING MODULE	D-997-826
510 & 520 DISTRIBUTOR MODULE	D-984-0709
510 RECEIVER MODULE	D-997-992
510 TRANSMITTER MODULE	D-997-941
510 MOTHER PC BOARD ASSEMBLY	D-997-943-1
520 RECEIVER MODULE	D-984-0118
520 TRANSMITTER MODULE	D-984-0119
520 MOTHER PC BOARD ASSEMBLY	D-997-0121-0

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**SPARES FOR 510 & 520 FLAME SCANNERS HEAD ASSY**

LENS QUARTZ	PART NO:
SPACER	A-987-029
COLLIMATOR TUBE SHIELD	A-987-057
TUBE SHIELD	A-987-058
SHUTTER BLADES	A-987-067
DETECTOR TUBE ASSEMBLY	B-997-773
MAGNET CORE	B-997-772
COMPRESSION SPRING	A-987-027
PLUG	A-987-026
SHUTTER COIL ASSEMBLY KIT	A-987-030
DETECTOR HEAD ASSEMBLY	A-987-689
FLEXIBLE HOSE	C-997-689
QUICK DISCONNECT COUPLING (MALE & FEMALE 4/5 PIN)	A-987-043
HOUSING ADAPTER	D-984-0190
UV DETECTOR TUBE	C-984-0285
	B-987-772

**SPARES FOR UV TO VISIBLE SCANNER (CONVERSION KIT)**

SIGNAL CONDITIONER MODULE	FLAME SCANNER DETECTOR ASSEMBLY
COMPRESSION SPRING	COLLIMATOR
FIBER OPTIC CABLE	MOUNTING ASSEMBLY
DETECTOR HOUSING PLUG	CONVEX LENS
SCANNER HEAD ELECTRONICS	FLAT LENS
HOUSING ADAPTER EXTENSION ASSEMBLY	

**HEA IGNITOR**

IGNITOR EXCITER 115 VAC / 230 VAC	RETRACTOR 115 VAC / 230 VAC
FLEXIBLE CABLE ASSEMBLY	4 " STROKE
FLEXIBLE SPARK ROD	5 " STROKE
RIGID SPARK ROD	8 " STROKE
SPARK ROD TIP	12 " STROKE
SPARK GAP TUBE	HT IGNITOR CABLE

**SPARES FOR EXCITER**

TRANSFORMER	STORAGE CAPACITOR
RECTIFIER	BLEED RESISTOR
INDUCTOR	OPEN CIRCUIT RESISTOR
RESISTOR	PCB

**IFM IGNITOR**

COMPLETE IFM TYPE IGNITOR SYSTEM	IGNITOR CONTROL CABINET
FLAME ROD HOUSING ASSEMBLY	HYDRO MOTOR VALVE WITH ACTUATOR
SPARK PLUG HOUSING ASSEMBLY	SS FLEXIBLE HOSE NB 15 X 1500mm
SPARK PLUG	SS FLEXIBLE HOSE NB 25 X 500mm
IFM ROD	SS FLEXIBLE HOSE NB 25 X 1500mm
IGNITOR TRANSFORMER	IGNITOR CONTROL VALVE FOR OIL & AIR
IFM CARD	JAMESBURRY"
IFM CARD TESTER	HT IGNITOR CABLE 10 KV / 275°C

We also under takes the **servicing** of **Modules, Head assemblies of Series 510, 520, safe Flame scanner I & II** and other Flame monitoring systems like **DURAG, BABCOCK, SIE, FORNEY, FIRE EYE, FSSS Modules, Hydromoter valves, Jamesburry valves, IFM & HEA Ignitor.**

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## **MAJOR ITEMS – PRODUCT LIST**

### **FLAME SCANNERS & IGNITORS**

- Burner Management System (FUEL FIRING SYSTEM)
- Flame Scanner (SAFE FLAME SCANNERS, VISIBLE FLAME SCANNER, UV FLAME SCANNER)
- Ignitor System (IFM IGNITORS, HEA IGNITORS, JAMESBURY VALVE & ELECTRIC VALVE ACTUATORS)
- FSSS Logic Cards

### **POWER PLANT MONITORING SYSTEM**

- Boiler Tube Leak Monitoring System (BTLD/ASLD / SLD)
- Feed water Heater Leak Monitoring System
- Furnace Gas Temp. Monitoring System
- Switch Yard Monitoring System
- Level Gauging of Boiler Drum & Feed water Heater
- **Portable Sonic / Ultrasonic Fault detector for PDM in Transformers, Steam Leak detection**

### **COMBUSTION / STACK GAS MONITORING SYSTEM**

- Monitoring On line Stack gas System (O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, C<sub>x</sub>H<sub>y</sub>, H<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, printer, LCD Display)
- Portable Flue Gas Monitoring System (O<sub>2</sub>, CO, CO<sub>2</sub>, NO/NO<sub>x</sub>, NO<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S, C<sub>x</sub>H<sub>y</sub>, Amb.Temp, Draft, Losses, Excess Air, Dewpoint, Gas Temp. Upto 1600<sup>0</sup>C, Differential Pressure, Printer, RS 232, Data Memory etc.)

### **VIBRATION MONITORING SYSTEM**

- Multi Channel On-line Conditioning Monitoring System
- Portable Vibration Meter/ Analyser
- Sensors and System for Vibration & Position Measurement
- Vibration Sensors, Non-Contacting Position Sensors (Proximity Sensors), Eddy Current Probe, Accelerometers, Displacement Transducer (LVDT)
- Predictive Maintenance & Condition Monitoring

- **PORTABLE ULTRASONIC FLOWMETER** - Combined Transit - Time / Doppler Clamp-on Flow meter

- **TURBINE FLOWMETERS**

- **CIRCUIT BRAKER ANALYSER**

- **OIL IN WATER ANALYSER**

- **SILICA ANALYSER**

### **ULTRASONIC LEVEL METER - CONTROLER - TRANSMITTER**

- Ultrasonic Measurement for Various Industrial Application

### **DEWPOINT MEASUREMENT SYSTEM**

- Portable / On line Dewpoint Meter/Analyser for Air and Gas Application & Dewpoint Transmitter

### **DUST/OPACITY MONITROING SYSTEMS**

- Continuous Particulate Emission monitoring system. Microprocessor based advance dynamic Optical Scintillation technique.

### **PRESSURE TRANSDUCER & DIGITAL INDICATORS**

- Pressure transducer (Gaga/Vacuum/Absolute), Pressure Switches & Indicators)

### **ENGINEERING SERVICE**

- Plant Retrofit
- Commissioning

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