



SAX-101

Compact Flame Scanner for all industrial burners

Ultra- Violet, Visible and Infra-Red Radiation Technology

Features

- Compact design, flame sensor and flame analyzer unit in one enclosure
- Wide Spectral Response Range from UV through IR
- Wide sensitivity range
- For ambient temperatures from -20°C up to +70°C
- Ability to switch-over for the set parameters of scanner.
- IrDA/USB interface

Applications

- Power stations
- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants.

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Functional description

The digital flame scanner analyzes flames UV, VIS and IR radiation, using a microprocessor. The spectral ranges are detected by a solid state photodetector or UV Lamp.

An IrDA/USB is provided to communicate with the computer for setting the scanner parameters and also monitoring the flame characteristics. Also, a switch-over for the set parameters of scanner (intensity and on/off threshold, safety time) is possible.

Flame Scanner Selection

Flame Sensor	Suitable for fuels					Feature
	Gas	Oil	Coal	Wood	NGS	
SAX-101-S21CX5	**	*	*		**	IR photo diode, combustion chamber flame monitoring. Ideal for monitoring gas and oil burners which have insufficient UV radiation caused by NOx reducing methods.
SAX-101-S22CX5	*	**	*			UV photo diode, selective monitoring of a single burner of oil and gas flames in multi burners chamber with low NOx combustion.
SAX-101-S23CX5	*	*	**	*		Visible photo diode, combustion chamber flame monitoring (coal, oil)
SAX-101-S18CX5	**	*				UV lamp, highly sensitive and selective monitoring of gas and oil flames.

** Ideally Suited * Well Suited

Accessories

Flame Explore Software



Infrared to USB Dongle Adapter

Features

SAX101-S??CX5			
Viewing angle	6°	Sighting tube connection	1" Internal thread
Power Supply	24 VDC Or 110VDC Or 115...230VAC	Weight (Scanner)	Approximate 2.5 kg
Current Consumption	Max 170mA @24VDC	Temperature range	-20°C ... +70°C
Protection Class	IP67, Ex db IIC	Analogue output	(0)4 ... 20mA
Flame relay	EPDT (115VAC 0.3 A)	Serial Channel	IrDA/USB
Switch over	+24V	Safety time	1, 2, 3, 4, 5, 6 S