AGD01 Scanners

Sensor Unit

**Solid State Flame Sensor
Various Spectrum Sensitivity
For Detection of Gas, Oil
And Coal Fames**



Features

- Wide sensitivity range
- Various design for different ambient temperature ranges
- Adjustable to different combustion chamber
- Measurement of flame intensity
- Measurement of flame flicker frequency
- Measurement of flame brightness

Applications

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

Sepanta Electronic Tabarestan

**4713817166, Block 6, Ashrafi 10
Babol, Mazandaran, Iran.**

**Tell: +98 11 32394723
Fax: +98 11 32203248
Mobile: +98 912 504 4973**

**Email: info@set-control.com
Web: www.set-control.com**

Functional Description

The digital flame detector analyzes flames in two parts; first, amplifying and pre-analyzing is done in the "sensor unit", using a microprocessor.
The "AGD01 sensor unit" has different part numbers for different sensors, connections and housings as shown in below tables.

Flame Sensor Unit Ordering Table

Part Number	Suitable For Fuels					Feature
	GAS	OIL	COAL	WOOD	H2S	
AGD01-S21C?? 024-YY	••	•	•		••	IR photo diode, combustion chamber flame monitoring, ideal for monitoring gas and oil burners which have insufficient UV radiation caused by NOx reducing methods
AGD01-S22C?? 024-YY	•	••	•			UV photo diode, selective monitoring of a burner of oil and gas flames in multi burners chamber with low NOx combustion
AGD01-S23C?? 024-YY	•	•	••	•		Visible photo diode, combustion chamber flame monitoring (coal, oil)
AGD01-S18C?? 024-YY	••	•				UV lamp, monitoring of gas and oil flames

•• ideally suited • well suited

Different sensors are used in "AGD01 sensor unit" to detect diverse light spectrums of various fuels. On the other hand, for different hazardous conditions and ambient temperatures, there is variety of sensors, housings and connections.
All "AGD01 sensor units" are in connection with a monitor unit and powered by 24 VDC output of it. Any other configuration should be ordered in special.

Code	Description
?? (housing)	U: Standard housing X1: Ex-housing X3: OE-converter-housing X4: Ex-housing for OE-converter
YY (Pinout)	00: EExd gland + cable 11: Connector with standard wiring

Operational Condition

Viewing angle	6°	Sighting tube connectors	1" Female G
Protection class	IP67, Ex db IIB T5 Gb	Ambient temperature range	Up to 80 °C
Operating voltage	24 V DC, inner electrical isolation	Current consumption	Max 50mA
Data connection type to monitor unit	RS485	Length of cable	Max 500m