



# ALG-AS

## ANALOGUE PHOTOELECTRIC SMOKE SENSOR

**Hochiki Provides New, high Quality Sensors. Hochiki's New Photoelectric Analogue Smoke sensor supports the Newly Developed GTP Transmission Protocol communication. ALG-AS can give a very fast response by means of transmission INTERRUPT of the normal polling thus, priority attention in the event of device activation.**

### Features

1. More accurate fire detection allows significantly greater distinction between real and transient or false events. ALG-AS has its loop address set between 1 and 127 by a simple solid state programming method. The sensor's address is stored in a nonvolatile memory within the sensor, the address can be changed from the factory default by using a hand-held programmer.
2. Through fully digital, asynchronous communication, the sensor can give a very fast fire alarm by means of interrupt of the normal polling thus, priority attention in the event of device activation.
3. Can support a low power operation made for current saving.
4. All sensor's analogue data are synchronized by means of A/D conversion commands from the control panel.
5. ALG-AS accommodates a remote LED terminal and a monitoring LED.

6. Fire test can be performed by a command from the control panel.
7. Alarm and pre-alarm levels can be set by commands from the control panel.
8. ALG-AS has been designed with a one piece outer cover which gives an aesthetically pleasing modern low profile shape. Twin fire alarm LEDs give 360° viewing, the light from the LEDs is transmitted via unique light guides because the LEDs are sealed on the PCB for increased protection and reliability.

### Principle of Operation

The ALG sensor has a 4 bit micro processor and can read transmission signals from the control panel, including paging signals, fire test signals, and alarm lamp turn on signals. These transmission signals are transmitted as digital signals which change the power source voltage between 39.5V (high) and 31.0V (low). In addition, ALG-AS returns an analogue value corresponding to the smoke density from the detector using a digital signal. When polled from the control panel, the analogue sensor returns the last analogue value. The fire alarm level is sent from the control panel to the analogue sensor in advance. When the detected smoke density exceeds this level, the sensor sends a fire signal and, as a rule, the control panel stops polling and performs fire detection processing by priority.

### AUSTRALIAN DISTRIBUTORS

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## Maintenance

To ensure reliable performance and long life, the ALG-AS should be regularly tested and cleaned. For further information, please contact Hochiki or Hochiki authorized agent.

## Specifications

		ALG-AS
Supply Voltage Range	Absolute Maximum Voltage (V <sub>H</sub> )	41V DC
	V <sub>Low</sub>	17V - 31V
	Pulse Voltage	7V - 9V
Current Consumption	Quiescent	390μA (Typ)
	Low Power Mode 0.75s Polling	120μA (Typ)
	Low Power Mode 1.5s Polling	110μA (Typ)
	Current in polling	22mA ±20%
	Current in Alarm	36mA
	Surge Current	40mA (for 50ms)
Smoke Density Range		0 ~ 4.5%/m
Fire Test Level		4.5%/m
Operating Ambient Temperature Range		-10°C ~ +50°C
Storage Temperature Range (≤80% RH at 60°C)		-30°C ~ +60°C
Dimensions		Ø100mm   x 48mm
Weight		Approximately 100g
Colour		Off White
Applicable Standard		AS1603-2
SSL Listing Number		AFP-1089

