



ATG-AS

ANALOGUE HEAT SENSOR

Hochiki Provides New, High Quality Sensors. Hochiki's New Analogue Heat Sensor supports the Newly Developed GTP Transmission Protocol communication. ATG-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. The Hochiki Analogue Heat Sensor ATG-AS has been designed to adapt to the interior design requirements and/or customer needs without detracting from the appearance of the ceiling.
2. The ATG-AS uses a high linearity, miniature, integrated thermal sensing circuit to monitor the temperature surrounding the sensor.
3. The low thermal resistance of the sensor design provides rapid response to any changes in temperature.
4. The ATG-AS can transmit an analogue signal directly proportional to temperature, thereby delegating the fire detection to a central control where, through the aid of more powerful processing, greater analysis of the conditions existing at the sensor can take place.
5. Fires can accurately be assessed, offering significantly greater discrimination between real and transient or false events. ATG-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.
6. It is possible for the control panel to perform a test sequence on the sensor which not only checks the ability of the sensor to transmit an alarm signal, but also enables the control panel to record the ambient temperature.
7. All sensor's analogue data are synchronized by means of A/D conversion commands from the control panel for fire analysis purpose.
8. ATG-AS accommodates a remote LED terminal and a monitoring LED.
9. Alarm and pre-alarm levels can be set by commands from the control panel.
10. ATG-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.

AUSTRALIAN DISTRIBUTORS

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Principle of Operation

The ATG-AS sensor has a 4 bit microprocessor 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, signals containing the temperature information are returned from the sensor. When the analogue sensor reads A/D conversion signals as distinguished from a normal poll, the heat detection voltage generated in the thermistor is subjected to A/D conversion. In addition, a constant current is applied to the thermistor and a voltage corresponding to the detected temperature is generated there. Then, the voltage is subjected to A/D conversion by the CPU. When polled from the control panel, the analogue sensor returns the last analogue value. In case the thermistor is opened (disconnected), the sensor generates the fault signal to the control panel. The fire temperature level is sent from the control panel to the analogue sensor in advance. When the detected temperature 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.

Maintenance

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

Specifications

		ATG-AS
Supply Voltage Range	Absolute Maximum Voltage (V _H)	41V DC
	V _{Low}	17V - 31V
	Pulse Voltage	7V - 9V
Current Consumption	Quiescent	350μA (Typ)
	Low Power Mode 0.75s Polling	110μA (Typ)
	Low Power Mode 1.5s Polling	100μA (Typ)
	Current at polling	22mA ±20%
	Current in Alarm	36mA
	Surge Current	25mA (for 250ms)
Temperature Measurement Range		-20°C ~ +88°C
Storage Temperature Range (Under Humidity 80%)		-30°C ~ +70°C
Dimensions		Ø100mm x 40mm
Weight		Approximately 100g
Colour		Off White
Applicable Standard		AS1603-1
Remarks		ATG-AS can respond up to 100°C
SSL Listing Number		AFP-1088

