TrueAlarm® Analogue Addressable Detectors

Smoke. Fire. Water damage. Each can quickly translate into danger. Danger to life. Damage to the building and its contents. Lost productivity. Lost revenue. Protection from these dangers requires a total commitment to building design and operation. The Simplex patented TrueAlarm fire detection systems have proven themselves as the early warning system of choice.

Features

- Louvred Design for patented smoke capture
- Reduced maintenance costs
- Analogue photoelectric smoke sensing
- Analogue heat sensing
- High system integrity
- High integrity digital transmission of analogue data
- Integral base LED indicates alarm or fault
- Addressing dipswitch in permanently mounted base
- Interchangeable, tamper-proof detectors
- Automatic environmental compensation
- Automatic self-test feature

General

Engineered for superior performance in the most demanding of environments, the Simplex TrueAlarm Detection System is light years ahead of any other fire sensing solution available today. TrueAlarm's intelligent sensing technology, manageability and flexibility are based on decades of experience and supported by seven individual U.S. patents. But the TrueAlarm system's real value is proven where it counts – at customer sites. Since 1990, more than seven million TrueAlarm sensors have been installed worldwide, protecting people, property and peace of mind in hospitals, office buildings, universities, government institutions, industrial complexes, sports stadiums and a wide range of other world-class commercial facilities.

4098-9714EA TrueAlarm Photoelectric Smoke Detector

TrueAlarm photoelectric smoke detectors use a stable pulsed LED light source and a silicon photodiode receiver to provide consistent and accurate low power smoke sensing. Seven CIE. selected sensitivity levels are available for each detector. Used in conjunction with the Simplex 4100ES/4100U series of CIE, the 4098-9714EA has a high degree of nuisance alarm immunity thanks to advanced algorithms.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	100µA (max.)
Alarm Current[2]	400µA (max.)
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Sensitivity	4% to 6% Obs/m
Dimensions (incl base)	124 dia x 54mm
ActivFire Listed[3]	afp-1225

Part Numbers

TrueAlarm Smoke Det.	4098-9714EA
TrueAlarm Base	4098-9789EA
IDNet Isolator Base	4098-9793EA
TrueAlarm Sounder Base	4098-9794EA

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on
3. Complies with AS 1603.2-1997

4098-9733EA TrueAlarm Heat Detector

TrueAlarm heat detectors provide rate-compensated, fixed temperature sensing, selectable with or without rate-of-rise temperature sensing. Due to its small thermal mass, the detector accurately and quickly measures the local temperature for analysis at the CIE. Rate-of-rise temperature detection is selectable at the CIE. Fixed temperature sensing is independent of rate-of-rise sensing. Configurable for either Type A or Type B as per AS 1603.1.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	400µA (max.)
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Dimensions (inc base)	124 dia x 60mm
ActivFire Listed[2]	afp-1202

Part Numbers

TrueAlarm Heat Det.	4098-9733EA
TrueAlarm Base	4098-9789EA
IDNet Isolator Base	4098-9793EA
TrueAlarm Sounder Base	4098-9794EA

1. MAPNET II or IDNet auto select
2. Complies with AS 1603.1-1997 as Type A & Type B

4098-9754EA TrueAlarm Photoelectric & Heat Multi-Sensor Detector

This multi-sensor detector combines the TrueAlarm photoelectric smoke sensor with a fast-acting, accurate TrueAlarm thermal sensor in a single detector/base assembly. Each multi-sensor's smoke and heat sensing element provides data for evaluation at the CIE where four independent detection modes are evaluated:

- Fixed temperature heat detection
- Rate-of-rise heat detection
- TrueAlarm photoelectric smoke detection
- TrueSense correlation detection

The thermal sensor can selectively generate an alarm at a fixed temperature or a rate-of-rise of temperature. Complies with AS 1603.1-1997 and AS 1603.2-1997

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	400µA (max.)
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Sensitivity (at CIE.)	4% to 5%Obs/m
Dimensions (inc base)	124 dia x 57mm
ActivFire Listed[2]	afp-1361

Part Numbers

4100U IDNet

Multi-Sensor Detector	4098-9754EA
Detector Base	4098-9789EA
Sounder Base	4098-9794EA

4100U MAPNET II

Multi-Sensor Detector	4098-9754EA
Multi-Sensor Sounder Base	4098-9795EA
Multi-Sensor Base	4098-9796EA

1. MAPNET II or IDNet auto select
2. Complies with AS 1603.1-1997 as Type A & Type B and AS 1603.2-1997

4098-9755EA TrueAlarm Duct Sampling Unit

TrueAlarm duct sampling units detect the presence of smoke in air conditioning or ventilation ducts. Sampling tubes are installed into the duct and air is directed to a 4098-9714EA TrueAlarm photoelectric smoke detector mounted in the housing. These duct sampling units provide the high reliability performance of TrueAlarm analogue sensing featuring programmable sensitivity, consistent accuracy, environmental compensation, status testing and monitoring of sensor dirt accumulation. Sampling tubes are available to suit duct widths of up to 1800mm.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Alarm Current[2]	400μA (max.)
Duct Air Velocity	1 to 8 m/s
Sensitivity	0.5% to 4% Obs/m
Differential Pressure	0.69 Pa (min.)
Min. Duct Size (mm)	200 sq /300 dia
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Dimensions (HWD)	86x289x171mm
ActivFire Listing[3]	afp-1354

Part Numbers

Duct Sampling Unit	4098-9755EA
Sampling Tube 1.2m	2098-9797
Sampling Tube 1.8m	2098-9798

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on
3. Complies with AS 1603.13-1998

4098-9789EA TrueAlarm Detector Base

The TrueAlarm detector base contains integral addressable electronics that constantly monitors the status of the detachable detector. Detector types can be easily interchanged to meet specific location requirements, for example during building construction or maintenance. The device address is contained in the base, so the address remains with its programmed location when the detector is removed for service. An integral red LED indicates power-on by pulsing, or alarm or fault when steady on.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	400μA (max.)
Alarm Current[2]	1mA (typ.)
Ambient Temperature	0°C to +55°C
Relative Humidity	10% to 95% (n/c)
Dimensions	105 dia x 35mm
ActivFire Listed	afp-1225/1246
Part Number	4098-9789EA

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on

4098-9793EA TrueAlarm IDNet Isolator Base

The 4098-9793EA IDNet Communications Isolator Base provides Simplex TrueAlarm analogue sensor operation and also provides IDNet communications isolation to improve installation convenience and increase system integrity. Isolation is automatically activated at the base when an output short circuit is detected and isolation can also be selected per base manually from the control panel to assist with troubleshooting wiring problems.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	500μA (typ.)
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Dimensions	105 dia x35mm
ActivFire Listed	afp-1246
Part Number	4098-9793EA

1. IDNet, one address per base

4098-9794EA TrueAlarm Sounder Base

The TrueAlarm sounder base has a built-in piezoelectric sounder that provides a high 90 dBA output whilst maintaining a low current requirement. Used with the interchangeable TrueAlarm detectors, the sounder can be powered from 24Vdc or from a compatible Notification Appliance Circuit (NAC). It is synchronised coded/temporal coded by the CIE. or by the NAC. The sounder can be manually activated from the CIE. and sounder operation can operate independently to detector operation The sounder base has a built-in magnetic test feature.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Sounder Voltage	18 to 32Vdc
Quiescent Current (max)	270μA
Alarm Current[2] (max)	20mA @ 32Vdc
Sound Pressure Level	90 dBA @ 3m
Output Tones	Steady or ISO 8201 T3 evacuation tone
Ambient Temperature	0°C to +50°C
Relative Humidity	10 to 95% (n/c)
Dimensions	164 dia x29mm
ActivFire Listed	afp-1203, 1225,1246
Part Number	4098-9794EA

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on

4098-9795EA TrueAlarm Multi-Sensor Sounder Base

The TrueAlarm Multi-Sensor sounder base features two sequentially addressed points, automatically assigned with one address selection. It has a built-in piezoelectric sounder providing a high 90 dBA output whilst maintaining a low current requirement. The sounder can be powered from 24Vdc or from a compatible Notification Appliance Circuit (NAC). It is synchronised coded/temporal coded by the CIE. or by the NAC. The sounder can be manually activated from the CIE. The 4098-9795EA must be used when adding a 4098-9754 multi-sensor to the MAPNET II protocol.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Sounder Voltage	18 to 32Vdc
Quiescent Current	400µA (max.)
Alarm Current[2] (max)	20mA @ 32Vdc
Sound Pressure Level	90 dBA @ 3m
Ambient Temperature	0°C to +50°C
Relative Humidity	10% to 95% (n/c)
Dimensions	164 dia x 29mm
ActivFire Listed	afp-1361
Part Number	4098-9795EA

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on

4098-9796EA TrueAlarm Multi-Sensor Detector Base

The TrueAlarm Multi-Sensor detector base features two sequentially addressed points, automatically assigned with one address selection. The base-mounted address selection allows the address to remain with its programmed location when the detector is removed for service. An integral red LED indicates power-on by pulsing, or alarm or fault when steady on, reflecting status of either sensor. The exact status of the specific sensing element is annunciated at the CIE. The 4098-9796EA must be used when adding a 4098-9754 multi-sensor to the MAPNET II protocol.

Technical Specification

Comms and Sensor Pwr[1]	24 to 40Vdc w/data
Quiescent Current	400µA (max.)
Alarm Current[2]	1mA (max.)
Ambient Temperature	0°C to +55°C
Relative Humidity	10% to 95% (n/c)
Dimensions	105 dia x 35mm
ActivFire Listed	afp-1361
Part Number	4098-9796EA

1. MAPNET II or IDNet auto select
2. LED off. Add 1.5mA for LED on

TrueSTART II™ Diagnostic Tool

The TrueSTART II (System Technical Analysis and Readiness Testing) instrument is a portable, hand-held tool designed to help test and commissioning your TrueAlarm detectors and IDNet devices. The TrueSTART II instrument enables technicians to quickly verify that all wiring and peripheral devices are installed and operating properly – even if system wiring is not connected to the fire alarm control panel

Technical Specification

Power	240 VAC/14Vdc
Battery	4-cell 14V Lithium-ion
Battey Capacity	1200 mAh, up to 6 hours testing
Charge Time	4 hours (typical)
Ambient Temperature	0°C to +55°C
Relative Humidity	10% to 95% (n/c)
Part Numbers	
Complete Kit	TSIT-AUK
TSIT Replacement Leads	TSIT-LEADS

Kit comprises: TrueStart II tool, full set of test leads, manual, Li-ion battery, AC adapter, carry bag.

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Fire Protection Products