

TrueAlarm<sup>®</sup> 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 <sup>1</sup>	24 to 40Vdc w/data
Quiescent Current	100µA (max.)
Alarm Current <sup>2</sup>	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 <sup>3</sup>	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. Rateof-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 <sup>1</sup>	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 <sup>2</sup>	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	24 to 40Vdc w/da
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 <sup>2</sup>	afp-1361

Part Numbers 4100U IDNet

1000101001	
Multi-Sensor Detector	4098-9754EA
Detector Base	4098-9789EA
Sounder Base	4098-9794EA

to 40Vdc w/data

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

## 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.

## 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.

### 4098-9794EA TrueAlarm Sounder Base



The TrueAlarm sounder base has a builtin 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<sup>1</sup> 24 to 40Vdc w/data Alarm Current<sup>2</sup> Duct Air Velocity Sensitivity Differential Pressure Min. Duct Size (mm) Ambient Temperature Relative Humidity Dimensions (HWD) ActivFire Listing<sup>3</sup> Part Numbers

400µA (max.) 1 to 8 m/s 0.5% to 4% Obs/m 0.69 Pa (min.) 200 sq /300 dia 0°C to +50°C 10% to 95% (n/c) 86x289x171mm afp-1354

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

#### **Technical Specification**

Comms and Sensor Pwr<sup>1</sup> 24 to 40Vdc w/data Quiescent Current 400µA (max.) Alarm Current<sup>2</sup> 1mA (typ.) 0°C to +55°C Ambient Temperature Relative Humidity 10% to 95% (n/c) Dimensions 124 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

#### **Technical Specification**

Comms and Sensor Pwr<sup>1</sup> 24 to 40Vdc w/data Quiescent Current 500µA (typ.) Ambient Temperature 0°C to +50°C 10% to 95% (n/c) Relative Humidity Dimensions 124 dia x35mm ActivFire Listed afp-1246 4098-9793EA Part Number

1. IDNet, one address per base

### **Technical Specification**

Comms and Sensor Pwr <sup>1</sup>	24 to 40Vdc w/data
Sounder Voltage	18 to 32Vdc
Quiescent Current (max)	270µA
Alarm Current <sup>2</sup> (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 multisensor to the MAPNET II protocol.

# 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 poweron 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 ll protocol.

### TrueSTART II<sup>™</sup> Diagnostic Tool



The TrueSTART II (System Technical Analysis and Readiness Testing) instrument is a portable, handheld 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**

Comms and Sensor PWr	24 to 40Vdc w/data
Sounder Voltage	18 to 32Vdc
Quiescent Current	400µA (max.)
Alarm Current <sup>2</sup> (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

# **Technical Specification**

Comms and Sensor Pwr <sup>1</sup>	24 to 40Vdc w/data
Quiescent Current	400µA (max.)
Alarm Current <sup>2</sup>	1mA (max.)
Ambient Temperature	0°C to +55°C
Relative Humidity	10% to 95% (n/c)
Dimensions	124 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

#### **Technical Specification**

Power	240 VAC/14Vdc
Battery	4-cell 14V Lithium-io
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.

Australia Level 3, 95 Coventry Street Southbank VIC 3006 Tel: 1300 725 688 Tel: +61 3 9313 9700 Email: tfppcustservice.au@tycofp.com SIMPLEX is a leading global brand in the fire detection industry. The SIMPLEX product line includes a wide range of AS-listed, UL-listed and FM-approved life safety products for fire detection, emergency communications, voice evacuation, security, and related solutions. Many other product approvals and listings are also available including Chinese, Korean, and Russian certifications. The product line is available through a variety of Johnson Controls companies and SIMPLEX authorised dealers around the world.

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