



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1246</b>	1-Jul-1999	Number 12	Issue date 1-May-2018	30-Apr-2019

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## Product designation

**Simplex, Model 4098-9717EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Simplex Fire Products  
47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

SimplexGrinnell  
50 Technology Drive, WESTMINSTER, MA, UNITED STATES, 01441

## Conformance criteria and evaluation

The Simplex, Model 4098-9717EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke detectors' incl. Amdt 1 (August 1998).

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



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## Producer's description

The Simplex, Model 4098-9717, nominal sensitivity (S)=0.4 MIC X, ionisation smoke detector utilises a small radiation source, Americium 241, to detect the presence of particles resulting from a fire. A signal voltage, generated from particles entering the ionisation chamber, is converted into an 8-bit A to D output and transmitted to the fire alarm panel for processing.

TrueAlarm smoke sensor bases are connected to a 2120 Multiplex Communicating Device Transponder (CDT) in the 4010 fire alarm panel. The Simplex base assembly and sensor obtain power and data over the MAPNET II/ID Net wiring. The address associated with the sensor is provided by switch settings in the base assembly.

## Technical specification

The following details are a representative extract of the technical specification for the Simplex, Model 4098-9717EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>Nominal sensitivity (S):</b>	0.4 MIC X
<b>Working voltage:</b> (MAPNET II/IDNet)	24 Vdc to 40 Vdc
<b>Average operating current:</b>	80 $\mu$ A
<b>Temperature range:</b>	-10°C to +55°C
<b>Humidity range:</b>	10 to 95% RH

Tested base designation	Base + detector circuit type
Simplex, Model 4098-9789	Analogue Addressable
Simplex, Model 4098-9793	Analogue Addressable
Simplex, Model 4098-9794	Analogue Addressable

## Supplementary information

### Self test facility

The Simplex, Model 4098-9717, ionisation smoke detector may be tested with a magnet to verify proper operation of the Fire Alarm Control Panel. Place a magnet against the detector's side (over the location marked by a " | " on the head of the ionisation detector and hold for ten seconds to activate an internal reed switch.

### TrueAlarm™ Sensor Bases

TrueAlarm sensor bases have integral addressable electronics and constantly monitor the status of the detachable ionisation sensor. The sensor output is digitised and transmitted to the system control every four seconds. Each sensor base has a eight dip switches to set the address of the base assembly.

### Specifications:

	Sensor with 4098-9789 base assembly	Sensor with 4098-9793 base assembly	Sensor with 4098-9794 base assembly
Integral features	Alarm LED Remote LED Output	Alarm LED	Alarm LED Remote LED Output Sounder - 85dB @ 3m
Working voltage (Mapnet II)	24 - 40 Vdc	24 - 40 Vdc	24 - 40 Vdc
24V working voltage (relay or sounder power)			18 - 32 Vdc
MAPNET II/ID net current	400 $\mu$ A	400 $\mu$ A	400 $\mu$ A
24V standby current (relay or sounder)			270 $\mu$ A
24V current (relay or sounder activated)			17 mA
led output	Yes		Yes
Temperature range	0°C to 55°C		

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Humidity range		10% to 95% RH			