CSIRO Verification Services
Clayton, Victoria, Australia
+61 13 0036 3400
https://activfire.csiro.au

Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	
afp - 2143	28-Nov-2007	19	8-Apr-2024	30-Apr-2025	Page **1** of **2**

Product designation

System Sensor, 2251CTLE-34 Series, multi criteria fire sensor

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

Agent/distributor

Pertronic Industries Pty Limited
Unit B2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA, 3171

Registrant

Pertronic Industries Pty Limited
Unit B2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA, 3171

Producer

System Sensor Europe
Via Caboto 19/3, TRIESTE, ITALY, 34147

Conformance criteria and evaluation

The System Sensor, 2251CTLE-34 Series, multi criteria fire sensor has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.5-2004, 'Fire detection and alarm systems - Part 5: Point type heat detectors (ISO 7240-5:2003, MOD)'.
2. Australian Standard AS 7240.7-2004, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2003, MOD)'.

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.

ii. Installation and fitment of the detector using the Model B501 base.

iii. Mode settings for advanced application should not be used.

iv. Installation of the detector is used in indoor dry environments,

v. Installation and maintenance as recommended by the supplier/manufacturer.

Issued by

Kai Loh
Executive Officer – ActivFire Scheme

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.

Schedule to

Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page **2** of **2**
		Number	Issue date		
afp - 2143	28-Nov-2007	19	8-Apr-2024	30-Apr-2025	

Producer's description

The System Sensor, 2251CTLE-34 Series, multi criteria fire sensor is a microprocessor controlled, analogue addressable multi-sensor.

This fire detector incorporates four separate sensing elements. A carbon monoxide sensor (using an electrochemical cell), an infra red photo diode, a photoelectric smoke sensing chamber using the optical scatter principle and thermal detection using a thermistor.

The detector has six sensitivity settings which can be selected at the associated control and indicating equipment. Five sensitivity settings from least smoke sensitive to most smoke sensitive, each including heat operation, and one heat only setting in which the smoke sensing element is disabled.

The detector is a plug in sensor compatible with the System Sensor, Model B501 detector base. Two LEDs on the sensor pulse as the detector is polled by the associated control and indicating equipment. These LEDs illuminate red to indicate the alarm status of the device.

The loop address of the device is set in the range from device 1 to device 159 using two rotary decade address switches on the rear of the detector.

The physical dimensions are 102 mm diameter and 60 mm high without base.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, 2251CTLE-34 Series, multi criteria fire sensor and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Operating voltage range:	15 - 32 Vdc
Maximum average standby current:	300 μA (with LED blink enabled)
Alarm current:	7 mA @ 24 Vdc
Nominal activation temperature:	60 °C
Operating temperature range:	-20 - 55 °C
Operating humidity range:	15 to 90 % RH, non-condensing
Construction:	102mm dia x 80mm high. 110g (with B501 base)

Model	Colour	Tested base designation	Base + detector circuit type
Model 2251CTLE-34	Pure White	System Sensor, Model B501	Analogue Addressable
Model 2251CTLE-34-IV	Ivory		
Model 2251CTLE-34-BK	Black		