



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2953	15-Sep-2014	Number 20	Issue date 1-May-2023	30-Apr-2024

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Product designation

VESDA-E, VEU/VEP Series, aspirating smoke detection system

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

Agent/distributor

Xtralis Pty Ltd
4 North Drive, Virginia Park, 236-262 East Boundary Road, BENTLEIGH EAST, VIC, AUSTRALIA, 3165

Registrant

Xtralis Pty Ltd
4 North Drive, Virginia Park, 236-262 East Boundary Road, BENTLEIGH EAST, VIC, AUSTRALIA, 3165

Producer

Xtralis Pty Ltd
4 North Drive, Virginia Park, 236-262 East Boundary Road, BENTLEIGH EAST, VIC, AUSTRALIA, 3165

Conformance criteria and evaluation

The VESDA-E, VEU/VEP Series, aspirating smoke detection system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.20-2012, 'Fire detection and alarm systems - Part 20: Aspirating smoke detectors'.

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 assembly with new or existing Fire Detection Control and Indicating Equipment (FDCIE) 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

Kai Loh

Executive Officer – ActivFire Scheme



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Producer's description

The VESDA-E, VEU/VEP Series, aspirating smoke detection system provide very early warning of fire condition by draining air samples through an air sampling pipe network.

This equipment interfaces with fire warning and fire suppression release systems, and can be integrated into a building management system (BMS).

Technical specification

The following details are a representative extract of the technical specification for the VESDA-E, VEU/VEP Series, aspirating smoke detection system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Enclosure material	Num. of pipes	Dimensions (WHD)	Weight (approx.)	Colour touch screen	SLC fitted ⁽¹⁾	Maximum aspirator speed setting
Type	Ident.							
Model	VEU-A10	Aluminum	4	350 mm x 225 mm x 135 mm (13.8 in x 8.9 in x 5.3 in)	4.9 kg (10 lbs 10 oz)	Yes	No	10
	VEU-A10-NTF VEU-A10-HON						Yes	
	VEU-A00		4		4.8 kg (10 lbs 9 oz)	No	No	10
	VEU-A00-NTF VEU-A00-HON						Yes	
	VEP-A10-P	Plastic	4		4.0 kg (8.8 lbs)	Yes	No	5
	VEP-A10-P-NTF VEP-A10-P-HON						Yes	
	VEP-A00-P		4		4.1 kg (8.8 lbs)	No	No	5
	VEP-A00-P-NTF VEP-A00-P-HON						Yes	
	VEP-A00-1P		1		4.0 kg (8.8 lbs)	No	No	fixed
	VEP-A00-1P-NTF VEP-A00-1P-HON						Yes	

Notes

- NTF models support addressable communications to Notifier FDCIE
-HON models support addressable communications to Honeywell FDCIE.
Compatibility in accordance with AS 7240.13 has not been validated.

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Property/characteristic		VEU-A10(-NTF/-HON)	VEU-A00(-NTF/-HON)	VEP-A10-P(-NTF/-HON)	VEP-A00-P(-NTF/-HON)	VEP-A00-1P(-NTF/-HON)
Supply Voltage		18 to 30 Vdc (24 Vdc Nominal)				
Power Consumption @24 Vdc						
Quiescent	Setting 1	8.2 W	7.0 W	8.2 W	7.0 W	n/a
	Setting 5	10.0 W	8.8 W	10.0 W	8.8 W	n/a
	Setting 10	15.8 W	14.7 W	n/a	n/a	
In Alarm	Setting 1	10.4 W	7.8 W	10.4 W	7.8 W	n/a
	Setting 5	11.6 W	9.6 W	11.6 W	9.6 W	n/a
	Setting 10	16.6 W	15.5 W	n/a	n/a	
Quiescent	Fixed	n/a				8.8 W
In Alarm	Fixed	n/a				9.6 W
Operating conditions						
Temperature	Ambient	0°C to 39°C (32°F to 102°F)				
	Sampled Air	20°C to 60°C (-4°F to 140°F)				

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Property/characteristic	VEU-A10(-NTF/-HON)	VEU-A00(-NTF/-HON)	VEP-A10-P(-NTF/-HON)	VEP-A00-P(-NTF/-HON)	VEP-A00-1P(-NTF/-HON)
Humidity	10-95% RH, non-condensing				
Storage conditions					
Humidity	Dry (<95%)				
Temperature (non-operational)	0° to 85°C				
	Must not be exposed to sunlight or other radiation sources				
Sampling Pipe Network					
Maximum length per pipe					
one straight pipe	Refer System Design Manual				100 m (328 ft)
four straight pipes	100 m (328 ft)	100 m (328 ft)	70 m (230 ft)	70 m (230 ft)	n/a
Maximum total pipe length (with branches)					
one pipe	Refer System Design Manual				130 m (427 ft)
four pipes	800 m (2625 ft)	800 m (2625 ft)	560 m (1838 ft)	560 m (1838 ft)	n/a
Inlet Pipe Size	External Diameter: 25 mm or 1.05 in (3/4" pipe)				
Exhaust Pipe Size	External Diameter: 25 mm (1.05 in)				
Relays	7 programmable relays Contacts rated 2A @ 30 VDC (Resistive) Programmable to latch or not latch alarm or fault states				
IP Rating	IP 40				
Mounting	Upright or inverted				
Cable Access	4 x 26 mm (1 in) ports				
Cable Termination	Screw terminal blocks (0.2-2.5 sq mm, 24-14 AWG)				
Interfaces	USB (Type 2) Ethernet (RJ45)				
Dynamic Range	0.0002%/m (0.00006%/ft) to 32%/m (10%/ft)				
Sensitivity Range	0.005%/m (0.0015%/ft) to 20%/m (6.25%/ft)				
Threshold Setting Range					
Alert	0.005%–2.0% obs/m (0.0016% - 0.625% obs/ft)				
Action	0.005%–2.0% obs/m (0.0016% - 0.625% obs/ft)				
Fire 1	0.010%–2.0% obs/m (0.0031% - 0.625% obs/ft)				
Fire 2	0.020%–20.0% obs/m (0.0063% - 6.25% obs/ft)				

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report Number	XF3424/R1	Evaluation of product modification VESDA-E VES, VEP, VEP-HON and VEP-NTF series, aspirating smoke detectors for conformity to the requirements of AS 7240.20-2012	1-Dec-2020	CSIRO, Fire Systems Laboratory, AU
	XF3310/R1	Evaluation for conformity of the VESDA-E series, aspirating smoke detector to the requirements of AS 7240.20-2012	22-Jul-2019	
	XF3311/R1	Evaluation for conformity of VESDA-E VEU-NTF/VEP series, aspirating smoke detector, VESDA-E VEP-NTF series, aspirating smoke detector and VESDA-E VEA-NTF series, aspirating smoke detector to the requirements of AS 7240.20-2012	2-Mar-2020	
	XF3311/R2	Evaluation for conformity of VESDA-E VEU-HON series, aspirating smoke detector, VESDA-E VEP-HON series, aspirating smoke detector and VESDA-E VEA-HON series, aspirating smoke detector to the requirements of AS 7240.20-2012	2-Mar-2020	CSIRO, Fire Systems Laboratory, AU
Doc. No.	22061_13	VESDA-E VEU-A00, Product Guide	Sep-2020	Xtralis Pty Ltd, AU
	22077_13	VESDA-E VEU-A10, Product Guide		
	22060_15	VESDA-E VEP-A00, Product Guide	Aug-2020	
	22071_15	VESDA-E VEP-A10-P, Product Guide		
	33830_05	VESDA-E VES-A00-P, Product Guide		
	33794_05	VESDA-E VES-A10-P, Product Guide		