



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
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| afp - 2953 | 15-Sep-2014 | Number 14 | Issue date 13-Sep-2019 | 30-Apr-2020 |

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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 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



Schedule to Certificate of Conformity

| | | | | |
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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.

| Type | Variant Ident. | Enclosure material | Num. of pipes | Dimensions (WHD) | Weight (approx.) | Colour touch screen | Maximum aspirator speed setting |
|-------|----------------|--------------------|---------------|---|--------------------------|---------------------|---------------------------------|
| 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 | 10 |
| | VEU-A00 | | 4 | | 4.8 kg (10 lbs 9 oz) | No | 10 |
| | VEP-A10-P | Plastic | 4 | | 4.0 kg (8.8lbs) | Yes | 5 |
| | VEP-A00-P | | 4 | | 4.1 kg (8.8lbs) | No | 5 |
| | VEP-A00-1P | | 1 | | 4.0 kg (8.8lbs) | No | fixed |

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 | VEU-A00 | VEP-A10-P | VEP-A00-P | VEP-A00-1P | |
|---|---|--|-----------------|-----------------|----------------|-------|
| 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) | | | | |
| 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 | | | | | |

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| Property/characteristic | VEU-A10 | VEU-A00 | VEP-A10-P | VEP-A00-P | VEP-A00-1P |
|-------------------------|---------|---|-----------|-----------|------------|
| Cable Termination | | Screw terminal blocks (0.2-2.5 sq mm, 24-14 AWG) | | | |
| Interfaces | | USB (Type 2) Ethernet (RJ45) WiFi, IEEE802.11/b/g/n | | | |
| 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) | | | |

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 | XF3310/R1 | Evaluation for conformity of the VESDA-E series, aspirating smoke detector to the requirements of AS 7240.20-2012 | 22-Jul-2019 | CSIRO, Fire Systems Laboratory, AU |
| Document | 22061_12 P/N 30275 | VESDA-E VEU-A00, Product Guide | Nov-2018 | Xtralis Pty Ltd, AU |
| | 22077_12 P/N 30334 | VESDA-E VEU-A10, Product Guide | | |
| | 22060_13 P/N 30274 | VESDA-E VEP-A00, Product Guide | | |
| | 22071_13 P/N 30311 | VESDA-E VEP-A10-P, Product Guide | | |