



Certificate of Conformity

Certificate num. Registration date Version Valid until

afp - 2956

21-Oct-2014

Number Issue date
30-Apr-2017

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Product designation

VESDA®, Model VLQ-100, aspirating smoke detector

(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®, Model VLQ-100, aspirating smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

 Australian Standard AS 1603.8-1996, 'Automatic fire detection and alarm systems -Multi-point aspirated 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. This fire detector is not intended to be mounted in a hostile environment
- ii. Compatibility of this fire detector with new or existing control and indicating equipment should be verified prior to installation.

Issued by

David Whittaker

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.



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Producer's description

The VESDA VLQ is an aspirating smoke detector (ASD) that provides early warning of fire condition by draining air samples through an air sampling pipe network.

The VESDA VLQ detector is specifically designed to cater for small areas up to 100 m² (1000 ft²).

Technical specification

The following details are a representative extract of the technical specification for the VESDA®, Model VLQ-100, aspirating smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

VLQ-100 Specification	Value		
Supply Voltage	24 VDC nominal (18 to 30 VDC)		
Current Consumption	170 mA (quiescent), 190 mA (alarm)		
Dimensions	260 mm x 228 mm x 110 mm (10.24in x 8.98in x 4.35in)		
Weight	1.2 Kg (2.65 lbs)		
Operating Conditions	Temperature:		
	 Tested to: -10°C to 55°C (14°F to 131°F) * Recommended Ambient: 0°C to 39°C (32°F to 102°F) 		
	Humidity:		
	●10-95% RH, non-condensing		
Sampling Pipe Network	Pipe Length:		
	• Linear: Up to 2 x 6 m (2 x 20 ft.)		
	Branched: Up to 2 x 9 m (2 x 30 ft.)		
	Sampling Holes:		
	• 2 or 4 (1 or 2 per pipe)		
Pipe Size	Accepts both metric and American standard pipe sizes:		
	• Metric: 25 mm (1.05 in.)		
	• American Pipe: IPS 21 mm (¾ in.)		
Relays	• 3 relays. Pre-Alarm, Fire and Fault		
	Contacts rated 2A @ 30 VDC		
	Programmable to latch or non-latch states Programmable 0, 60 and delay for each relay.		
	 Programmable 0 - 60 sec delay for each relay 		
IP Rating	IP30		
Mounting	Surface or flush mounting with optional mounting brackets.		
Cable Access	• Two cabling inlet points from top		
	 Side entry through removable partition 		
Cable Termination	Screw terminal blocks (0.2-2.5 sq mm, 30-12 AWG)		
PC Connection	USB (Type 2)		
Sensitivity Range	0.005% - 3% obs/m (0.0015% - 0.915% obs/ft)		
Threshold Setting Range	• Fire Alarm: 0.15%/m - 3%/m (0.046%/ft - 0.915%/ft)		
	• Pre-Alarm: 0.1%/m - 1.5%/m (0.03%/ft - 0.457%/ft)		
Event Log	Up to 1,000 events		

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VLQ-100 Specification	Value
AutoLeam Smoke	• Minimum: 15 minutes
	Maximum: 2 Hours (through Xtralis QSC)
	 Recommended minimum period: 1 hour
	Thresholds are automatically changed from the previously set values to the updated values after the AutoLearn process has completed. AutoLearn Smoke over-rides the DIP switch settings within the smoke threshold range.

Supplementary information

Nil