



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2956	21-Oct-2014	Number 3	Issue date 29-Apr-2016	30-Apr-2017

Page 1 of 4

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.

1. 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



Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2956	21-Oct-2014	Number 3	Issue date 29-Apr-2016	30-Apr-2017

Page 2 of 4

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Certificate num.	Registration date	Version	Valid until	
afp - 2956	21-Oct-2014	Number 3	Issue date 29-Apr-2016	30-Apr-2017
				Page 3 of 4

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 10-95% RH, non-condensing
Sampling Pipe Network	Pipe Length: <ul style="list-style-type: none"> • Linear: Up to 2 x 6 m (2 x 20 ft.) • Branched: Up to 2 x 9 m (2 x 30 ft.) Sampling Holes: <ul style="list-style-type: none"> • 2 or 4 (1 or 2 per pipe)
Pipe Size	Accepts both metric and American standard pipe sizes: <ul style="list-style-type: none"> • Metric: 25 mm (1.05 in.) • American Pipe: IPS 21 mm (¾ in.)
Relays	<ul style="list-style-type: none"> • 3 relays. Pre-Alarm, Fire and Fault • Contacts rated 2A @ 30 VDC • Programmable to latch or non-latch states • Programmable 0 - 60 sec delay for each relay
IP Rating	IP30
Mounting	Surface or flush mounting with optional mounting brackets.
Cable Access	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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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Page 4 of 4

VLQ-100 Specification

Value

AutoLearn 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