



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1211</b>	13-Jan-1999	Number 12	Issue date 1-May-2018	30-Apr-2019

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## Product designation

**Olsen, Model P136, collective, non-latching, duct sampling unit**

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

## Agent/distributor

Tyco Fire Protection Products  
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

Tyco Fire & Security  
47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

## Conformance criteria and evaluation

The Olsen, Model P136, collective, non-latching, duct sampling unit has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13-1998, 'Automatic fire detection and alarm systems - Duct sampling units'.

## 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. The minimum pressure differential exceeds 4 Pa, +1 -0 Pa, with a duct air velocity of 1 m/s.
- ii. The nominal sensitivity is 8 %Obs/m with a duct air velocity of 1 m/s.
- iii. The maximum duct size is 1.8 m.
- iv. Compatibility of this fire detector and its base assembly 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 Olsen, Model P136, collective, non-latching, duct sampling unit is an integrated housing and detector for detecting smoke in air-conditioning ducts. The detection system consists of a sensor a separate PCB that combines non-latching trigger circuitry and field wiring termination.

The Olsen model P136 duct sampling unit consists of the following components:

- P136 housing assembly
- P136S sensor
- P136 junction box and lid with sub assembly circuit
- Sampling tubes.

The P136S sensor produces an analogue voltage proportional to smoke density. The trigger and indicating sub-assembly circuit monitors the output voltage and initiates an alarm condition when the output voltage exceeds the factory-set alarm level. In alarm, the alarm LED is illuminated and the supply voltage is reduced to signal an alarm to the Fire Indicator Panel (FIP). When the P136S output drops below the alarm level, the LED is extinguished and the supply voltage is returned to normal.

## Technical specification

The following details are a representative extract of the technical specification for the Olsen, Model P136, collective, non-latching, duct sampling unit and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Sensitivity:

Differential Pressure	%Obs/m
4 Pa	8
4 - 64 Pa	5

Operating voltage:	15 to 28 Vdc
Quiescent current:	150 to 500 $\mu$ A (pulsing)
Alarm voltage:	10.5 to 12.5 Vdc
Alarm current:	3 to 60 mA
Operating temperature:	-5° to +55°C
Relative humidity:	95% (non-condensing)
Maximum duct width:	1.8 m
Remote indicator:	Tyco E500Mk2 series
Compatible control & indicating equipment:	Vigilant F08, F3200, F4000

## Supplementary information

### Terminal markings PCB

+V i/o	Positive supply from CIE and to next device or EOL
-Vi	Negative supply from CIE
-Vo	Negative supply to next device or EOL
+R	Positive Remote indicator
-R	Negative Remote indicator