

CSIRO Verification Services Clayton, Victoria, Australia +61 13 0036 3400 https://activfire.csiro.au

### **Certificate of Conformity**

Certificate num.	Registration date	V	ersion	Valid until	
of 2002	16 Oct 2015	Number	Issue date	20.4. 2024	Page <b>1</b> of <b>4</b>
atp - 3002	16-Oct-2015	10	1-1/12/1-2022	30-Apr-2024	_

#### **Product designation**

Titanus Micro•Sens®, air sampling smoke detection system

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

#### Agent/distributor

Ampac Pty Limited 7 Ledgar Road, BALCATTA, WA, AUSTRALIA, 6021

#### Registrant

Wagner Group GmbH

Schleswigstraße 1-5, LANGENHAGEN, GERMANY, D-30853

#### **Producer**

Wagner Group GmbH Schleswigstraße 1-5, LANGENHAGEN, GERMANY, D-30853

#### Conformance criteria and evaluation

The Titanus Micro•Sens®, air sampling smoke detection system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

 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

Kaj Loh

Executive Officer - ActivFire Scheme





# Schedule to Certificate of Conformity

Certificate num.	Registration date	Ve	rsion	Valid until	
afp - 3002	16-Oct-2015	Number 10	Issue date 1-May-2023	30-Apr-2024	Page <b>2</b> of <b>4</b>

#### **Producer's description**

The Titanus Micro • Sens®, air sampling smoke detection system is comprised of a range of detection units, device base and pipe system.

The base unit contains the module for detection of the smoke aerosols and the aspirating unit. It contains an integrated air flow sensor for the transport of the air samples to the detector module as well as the air flow sensor for the monitoring of the pipe work system.

The pipe system consists essentially of pipe and fittings, in either PVC or ABS plastics material at option. Each aspirating hole in the pipe work system represents for configuration purposes one detector at ceiling level.

The detector alarm threshold can be set at between 0.1 %obs/m (DM-\*-10-\* models) or 0.5 %obs/m (DM-\*-50-\* models) and 2 %obs/m light obscuration in steps of 0.1 %obs/m. Using a smoke level indicator (where fitted), an indicator sensitivity of between 0.05 %/m and 0.2 %obs/m light obscuration can be achieved. The devices can provide two alarm thresholds (pre alarm and alarm). The pre-alarm threshold is adjustable from between 10 and 80% of the fire alarm threshold.

#### **Technical specification**

The following details are a representative extract of the technical specification for the Titanus Micro•Sens®, air sampling 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			
Туре	Ident. <sup>(see Notes)</sup>	Description	
	DM-MB-TM-10		
Model	DM-MB-TM-B-10	Detection box (enclosure)	
Model	DM-MB-TM-50		
	DM-MB-TM-B-50		
	DM-TM-10		
	DM-TM-R-10		
	DM-TM-B-10		
	DM-TM-RB-10		
	DM-TM-Z-10		
	DM-TM-ZB-10		
	DM-TM-10-F		
	DM-TM-B-10-F		
	DM-TM-50		
	DM-TM-R-50		
	DM-TM-B-50		
Model	DM-TM-RB-50	Detection unit	
	DM-TM-Z-50		
	DM-TM-ZB-50		
	DM-TM-50-F		
	DM-TM-B-50-F		
	DM-TMV-10		
	DM-TMV-R-10		
	DM-TMV-B-10		
	DM-TMV-RB-10		
	DM-TMV-Z-10		
	DM-TMV-ZB-10		
	DM-TMV-10-F		

### Schedule to

## **Certificate of Conformity**

Certificate num.	Registration date	V	ersion	Valid until	
-f 2002	16.0-+ 2015	Number	Issue date	20 4 2024	Page <b>3</b> of <b>4</b>
afp - 3002	16-Oct-2015	10	1-May-2023	30-Apr-2024	

Variant		
Туре	Ident. (see Notes)	Description
	DM-TMV-B-10-F	
	DM-TMV-50	
	DM-TMV-R-50	
	DM-TMV-B-50	
	DM-TMV-RB-50	
	DM-TMV-Z-50	
	DM-TMV-ZB-50	
	DM-TMV-50-F	
	DM-TMV-B-50-F	

Notes to model specifications:

- V designates pre-alarm function
- -R designates room identification function
- -F designates deep freeze models
- -B designates smoke level bar graph function
- -Z designates redundant fan function
- -10 designates a maximum sensitivity of 0.1 %obs/m, and -50 designates a maximum sensitivity of 0.5 %obs/m.

#### Schedule of properties/characteristics

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

	Titanus Micro•Sens® detection units		
General	Parameter		
Displays on device	Operation	Green operating display	
	Fire alarm	Red alarm display	
	Action alarm	Red alarm display (optional)	
	Fault	Yellow collective fault	
	Smoke level display	Yellow smoke level display 1 to 10	
	Silloke level display	(10 segments) (optional)	
	Alarm location display	5 red displays (optional)	
Reaction sensitivity			
DM-TM*-*10*	0.1 to 2.0 %obs/m		
DM-TM*-*50*	0.5 to 2.0 %obs/m		
Protection class (EN 60529)			
without air return	IP 20		
with air return	IP 42		
with pipe piece 100 mm/pipe bend	IP 54		
Electrical			
Supply voltage	24 Vdc (nominal) 16 – 30 Vdc		
Current consumption	150 mA quiescent, 205 mA in Alarm		
Environmental			
Operating temperature range	-20°C to +60°C		
Operating humidity range	0 - 95% RH (Non-condensing)		
Mechanical			
Dimensions (H x W x D)	70 mm x 140 mm x 222 mm		
Weight	0.8 kg		

# Schedule to

## **Certificate of Conformity**

Certificate num. Registration date Version Valid until

afp - 3002

16-Oct-2015

10

Number Issue date
10

1-May-2023

10-Apr-2024

Page 4 of 4

	Titanus Micro•Sens® detector box			
General	Parameter			
Displays on device	Operation	Green operating display		
	Fire alarm	Red alarm display		
	Action alarm	Red alarm display (optional)		
	Fault	Yellow collective fault		
	Smoke level display	Yellow smoke level display 1 to 10		
		(10 segments) (optional)		
	Alarm location display	5 red displays (optional)		
Reaction sensitivity				
DM-TM*-*10*	0.1 to 2.0 %obs/m			
DM-TM*-*50*	0.5 to 2.0 %obs/m			
Protection class (EN 60529)	IP 54			
Electrical				
Supply voltage	24 Vdc (nominal) 15 – 30 Vdc			
Current consumption	ion 30 mA quiescent, 68 mA in Alarm			
Environmental				
Operating temperature range				
Standard	-20°C to +60°C			
Deep-freeze version	-40°C to +60°C			
Operating humidity range	0 - 95% RH (Non-condensing)			
Mechanical				
Dimensions (H x W x D)	70 mm x 140 mm x 222 mm			
Weight	0.8 kg			

Titanus Micro•Sens® pipe network				
Maximum pipe length @25 mm	50 m			
Plus maximum pipe length @12 mm	8 x 3 m			
Maximum number of aspiration apertures	8			
Maximum length aspiration hose per ceiling duct	1 m			
Temperature range				
PVC-pipe	0°C to +60°C			
ABS-pipe	-40°C to +80°C			
Maximum monitoring surface area	400 m <sup>2</sup>			

#### **Supplementary information**

#### Schedule of relevant articles

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

Reference			Data insured	
Ident. type	Ident.	Title / description	Date issued (or date validated)	Source
Report Number	XF2890/R1	Conformity Evaluation of the Wagner Titanus Micro.Sens Aspirating Smoke Detector series to the requirements of AS 7240.20-2012	18-Aug-2015	CSIRO, Fire Systems and Acoustics, AU
Item Number	69-30-0525 Edition 06/13	Air sampling smoke detection system Fire detection TITANUS MICRO•SENS® Technical Manual	Jun-2013	Wagner Group GmbH LANGENHAGEN, DE