

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEx FMG 20.0011X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-08-10		
Applicant:	GasTech Australia Pty Ltd 24 Baretta Road Wangara WA 6065 Australia Australia		
Equipment:	Flame Detector Models FG1-IR3-ASX1, FG1-UV-IR-ASX1, FG1-UV-IR-F-ASX1 and FG1-IR3-H2-ASX1		
Optional accessory:			
Type of Protection:	Flameproof db		
Approved for issue on behalf of the IECEx Certification Body:		J. E. Marquedant	
Position:		VP, Manager - Electrical Systems	
Signature: (for printed version)			
Date:			
2. This certificate is	nd schedule may only be reproduced in full. not transferable and remains the property of th uthenticity of this certificate may be verified by		Code.
Certificate issued FM Approvals L 1151 Boston-Pro Norwood, MA 02 United States of	LC ovidence Turnpike 2062	<	FM Approvals Member of the FM Glubul Group



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Manufacturer:	GasTech Australia Pty Ltd 24 Baretta Road Wangara WA 6065 Australia Australia		
Additional manufacturing locations:			
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended			
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards			
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General require	ments	
IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0			
	This Certificate does not indicate compliance with safety a other than those expressly included in the Stan		
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:			
Test Report:			
US/FMG/ExTR20.00	07/00		
Quality Assessment Report:			
AU/TSA/QAR07.0005/08			



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Certificate No.: IECEx FMG 20.0011X

Date of issue: 2020-08-10

Page 3 of 3

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General – The flame detectors have four sensitivity ranges, Alarm and Fault, rated 2A at 30VDC relays, uses 0-20mA analog output and has RS-485 Modbus outputs. The detector operates from 18 to 32 V dc via connection to a compatible FM Approved fire alarm control providing separate circuits for alarm signaling and for power.

Construction – Models FG1-IR3-ASX1, FG1-UV-IR-ASX1, FG1-UV-IR-F-ASX1 and FG1-IR3-H2-ASX1 Flame Detectors have the same enclosure construction (with the exception of the sensor openings) and consist of a two compartment housing made of STS316 stainless steel. The forward most compartment (housing) consist of a sapphire window with a polyimide film window heater. The UV models have two openings and the IR3 model has three openings. Both use the same window and have the same flame path configuration. The three opening IR3 model was considered to be the worst case for the explosionproof enclosure and was used for the majority of the testing. The window is mechanically secured using a retaining bracket with 3 screws. This compartment contains the electronics. The housing is connected to a connection box using 4 hex head screws to secure a spigot joint. The connection box consists of two conduit entries that can be configured with M25 metric or ¾ inch NPT threads and one of which, when unused, will be fitted with a certified blanking plug. A printed circuit board for making the electrical connection box is closed by a cover with a spigot joint which is secured using 4 hex head screws.

FG1-a-ASb1 Non HD Flame Detector

a = IR3 or IR3- H2 or UV-IR or UV-IR-F

b = 1 (M25) or 2 (¾" NPT)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flameproof joints are not intended for repair. Contact manufacturer for more information if flameproof joints are damaged.
- Consult the manufacturer for genuine replacement cover and house to connection box fasteners. M6x1x18 Hexagonal Socket head fasteners with a minimum of ISO 4762 Grade A4 Class 80 are acceptable alternatives.