

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **BAS01ATEX2300 – Issue 3**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **FGD Series Gas Detector**

5 Manufacturer: **Status Scientific Controls Limited**

6 Address: **Mansfield, Nottinghamshire, NG18 5ER**

7 This re-issued certificate extends EC - Type Examination Certificate No. BAS01ATEX2300X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to

8 The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. SGS Baseefa, Notified Body Number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No. **19(C)0092/01**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1: 2014 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ II 2 G Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +60°C) (Infrared and Flammable sensors)

Ex ia IIC T4 Gb (-20°C ≤ Ta ≤ +60°C) (O₂ and Toxic sensors)

SGS Baseefa Customer Reference No. **2056**

Project File No. **19/0092**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

13 **Schedule**

14 **Certificate Number BAS01ATEX2300 – Issue 3**

15 **Description of Product**

An FGD* Series Gas Detector is designed to monitor the concentration of gas (flammable, oxygen or toxic) in the surrounding atmosphere and provide an optional LCD display, and a proportional 4-20mA signal.

Alternative model numbers are used; FGD 1 for the Detector without an LCD display and with an externally mounted gas sensor, and FGD2 for the Detector with an LCD display with an externally mounted gas sensor and FGD3 for the Detector with an integral gas sensor. The detector comprises electronic circuits and an optional LCD display mounted on printed circuit boards, a terminal block, and an LED, all contained in an enclosure providing a degree of protection of at least IP20.

A Gas Sensor to Certificate SIRA11ATEX1072X, SIRA04ATEX1357U or FTZU14ATEX0213U is mounted on the external surface of the enclosure, or up to 10m away at the end of a length of cable.

Input Parameters:

For Terminals SIG and 0: $U_i = 30V$, $I_i = 150mA$, $P_i = 0.81W$, $C_i = 10nF$, $L_i = 0$

For Terminals + and 0: $U_i = 7.5V$, $I_i = 750mA$, $P_i = 1.4W$, $C_i = 9.7\mu F$, $L_i = 0$

The gas to be monitored is shown on a label on the instrument case.
The apparatus is not designed for use in oxygen enriched atmospheres.

16 **Report Number**

19(C)0092/01

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues.
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 **Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
SSC06/001	1 of 4	6	07.02.19	GA of Gas Detector Type FGD
SSC06/065	1 of 1	3	07.02.19	FGD Infra Red Sensor Assembly General Assembly
SSC06/88	1 of 1	4	07.02.19	General Assembly of RFI Protected Gas Detector Type FGD – Internal Flammable Gas Version
SSC06/2056	1 of 2	4	07.02.19	FGD1/2/3 Infrared and flammable Gas Certification Label.
SSC06/2056	2 of 2	4	07.02.19	FGD1/2/3 Infrared and flammable Gas Certification Label. – Trade agent Version.
SSC06/2059	1 of 2	4	11.02.19	FGD1 – 3 O ₂ and Toxic Certification Label.
SSC06/2059	2 of 2	4	11.02.19	FGD1 – 3 O ₂ and Toxic Certification Label. – Trade Agent Version.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
SSC06/001	2	3	13.06.11	General Assembly of RFI Protected Gas Detector Type FGD - Flammable Gas Version
SSC06/001	3	3	13.06.11	General Assembly of RFI Protected Gas Detector Type FGD – Oxygen/Toxic Version
SSC06/001	4	3	13.06.11	General Assembly of RFI Protected Gas Detector Type FGD – Infra Red Version
SSC06/67	1	1	30/10/00	Encapsulated Fuse Details
SSC06/81	1	3	13.06.11	General Assembly of RFI Protected Gas Detector Type FGD – Internal Infra Red Version
SSC06/101	1	3	21/9/00	FGD Wiring Diagram for Oxygen and Toxic Versions
SSC06/101	2	3	21/9/00	FGD Wiring Diagram for Flammable Gas Versions
SSC06/179	1	1	19/10/00	MK2 FGD – Circuit for Flammable Gas Version
SSC06/180	1	1	19/10/00	MK2 FGD – Circuit for Oxygen/Toxic Version
SSC06/181	1	2	06/11/01	MK2 FGD – Circuit for Infra Red Version
SSC06/182	1	1	4/10/00	FGD Wiring Diagram for Infra Red Versions
SSC06/1002	1	1	02/10/01	Sensor Interface Circuit IR FGD3
SSC06/1003	1	1	4/6/01	Wiring Diagram (Terminal Block Connections) IR FGD3
SSC06/1014	1	1	4/12/01	Sensor Interface Circuit IR Peak Detect FGD1-2
SSC06/2021	1	1	25/10/00	IR Interface PCB 4
SSC06/2027	1 & 2	1	18/12/00	PCB Details MK2 O ₂ /Toxic
SSC06/2028	1 & 2	1	18/12/00	Main PCB Details IR
SSC06/2029	1 & 2	1	18/12/00	PCB Details MK2 Flammable
SSC06/2057	1 & 2	1	31/5/01	Interface PCB IR FGD3
SSC06/2060	1	1	03/12/01	IR Peak Detect Interface PCB 1
SSC06/2061	1	1	03/12/01	IR Peak Detect Interface PCB 2
SSC06/2062	1	1	03/12/01	IR Peak Detect Interface PCB 3

20 Certificate History

Certificate No.	Date	Comments
BAS01ATEX2300	5 April 2002	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997 + Amds 1 & 2, EN 50018:2000 and EN 50020:1994 is documented in Test Report No. 01(C)0164.
BAS01ATEX2300/1	28 July 2006	To permit the use of an alternative enclosure material and use of alternative Type names MGT1, MGT2 and MGT3.
BAS01ATEX2300 Issue 2	1 May 2012	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0:2009, EN 60079-1:2007 and EN 60079-11:2007 including the revision of the equipment marking in accordance with these standards.
BAS01ATEX2300 Issue 3	7 March 2019	To confirm that the current design meets the requirements of EN IEC 60079-0:2018 and EN 60079-11:2012, and to permit the use of an alternative flameproof component. Report 19(C)0092/01.

For drawings applicable to each issue, see original of that issue.