



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 03ATEX2325X

4 Equipment: TGIS-series data loggers

5 Applicant: Gemini Data Loggers

6 Address: Scientific House
Terminus Road
Chichester
PO19 8UJ
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R52A10090A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 plus amendments A1 & A2
EN 50020:2002
EN 50284:1999

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1 G
EEx ia IIC T4 ($T_a = -30^{\circ}\text{C}$ to 40°C)
EEx ia IIC T3 ($T_a = -30^{\circ}\text{C}$ to 75°C)

Project Number 52A10090
Date 23 September 2003
C. Index 15

M D Shearman
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX2325X

13 DESCRIPTION OF EQUIPMENT

The Tinytag is a portable, single-channel, self-contained data logger. Tinytag loggers operate from a single SAFT LST14250 3.7 V lithium cell (1/2 AA size) and the circuit is housed in an anti-static nylon 6 case.

To begin a logging run and to retrieve data afterwards, Tinytag loggers are designed to be connected by an RS232 link to a computer running suitable host software, but connection to the host computer only takes place in a non-hazardous area. The internal cell is protected from excessive voltages up to 125 Vrms when connected to a computer.

There are four versions of the Tinytag:

- 1 TGIS-0017 temperature logger – internal sensor
- 2 TGIS-0020 temperature logger – external sensor
- 3 TGIS-0304 relative humidity logger
- 4 TGIS-1500 temperature & relative humidity logger

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Title
	4455	1 of 1	2	26 Jun 03	Schematic
	4469	1 of 1	4	04 Sep 03	Certification marking
	4471	1 to 3	2	26 Jun 03	Artwork
	4472	1 of 1	2	08 Sep 03	General assembly
	4224	1 of 1	2	03 May 00	IS Thermistor Probe

14.2 Report No. R52A10090A

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 Connection to the 3-pin socket may only be made when the Tinytag logger is in the non-hazardous area and the installer shall ensure that the maximum voltage supplied under fault conditions does not exceed 125 Vrms.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R52A10090A.

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Date 23 September 2003

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EC TYPE EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER Sira 03ATEX2325X **Dated** 23 September 2003

VARIATION NUMBER 1 (ONE) **Dated** 10 November 2003

VARIATION TO EQUIPMENT

To permit:

- 1 a change in the name of the data loggers to 'TGIS-series'

DESCRIPTIVE DOCUMENTS

Drawing number	Rev.	Sheet	Date	Description
DWG-4469	5	1 of 1	04 Nov 03	Front and rear labels

ADDITIONAL CONDITIONS OF CERTIFICATION

None.

File No 52V10989

Report No. R52V10989A

M D Shearman
General Manager

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Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England
Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330
Email: exhazard@siratc.co.uk

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