



DNV



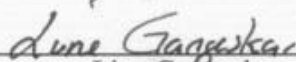
DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: **DNV-2003-OSL-ATEX-0259**
- [4] Equipment or Protective System: **Pressure Transmitter Types DT1450, GT2450**
- [5] Applicant – Manufacturer or Authorized representative: **Stellar Technology Inc**
- [6] Address: **237 Commerce Drive,
Amherst, New York, 14228 USA.**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report no. **2004-3244**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + A1:1999 + A2:1999, EN 50020:2002 and EN50284:1999
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following :

 II 1 G EEx ia IIC T4 (T_{amb} -40°C to +85°C)

Høvik, 2004-06-03
for Det Norske Veritas Certification AS


Line Gangeskar
Head of Section




Håkon S. Håkonsen
Senior Engineer

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV-2003-OSL-ATEX-0259

[15] **Description of Equipment or Protective System**

The Stellar Technology Series DT1450 and GT2450 are industrial 4-20mA output pressure transmitter rated for hazardous location service. The apparatus is available in absolute, sealed gage, true gage, and differential zero pressure reference. The apparatus is entirely manufactured from high-grade stainless steel with a submersible plug & socket for electrical interconnection.

Type Identification

DT1450
GT2450

Electrical Data

$U_i = 28\text{Vdc}$, $I_i = 93\text{mAdc}$, $C_i = 11\text{nF}$, $L_i = 0\text{mH}$

[16] **Report No.:** 2004-3244

Project No.: 42035260

Descriptive Documents

Number	Title	Rev.	Date
218811	Assembly, DT1450-135	A	-
218567	Schematic Circuit	A	03/21/02
218804	Nameplate DT1450-135	F	05/14/04
218745	Board Artwork, Bottom Silk Screen	A	03/21/02
218744	Board Artwork, Top Silk Screen	A	03/21/02
218743	Board Artwork, Bottom	A	03/21/02
218742	Board Artwork, Top	A	03/21/02
218739	Hole Size Callout	A	03/21/03
218985	Assembly, GT2450, Differential	A	07/31/02
218986	Assembly, GT2450, Weco	A	07/31/02
218987	Assembly, GT2450, Standard	A	07/31/02
218988	Nameplate GT2450	C	05/14/04
N/A	Bill of Materials DT1450-X-135	A	05/08/02
218118	Bill of Materials GT2450	A	-
220218	Diagram, Installation, xT2450/DT1450-135	B	05/14/03

[17] **Special Conditions for Safe Use**

None

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate

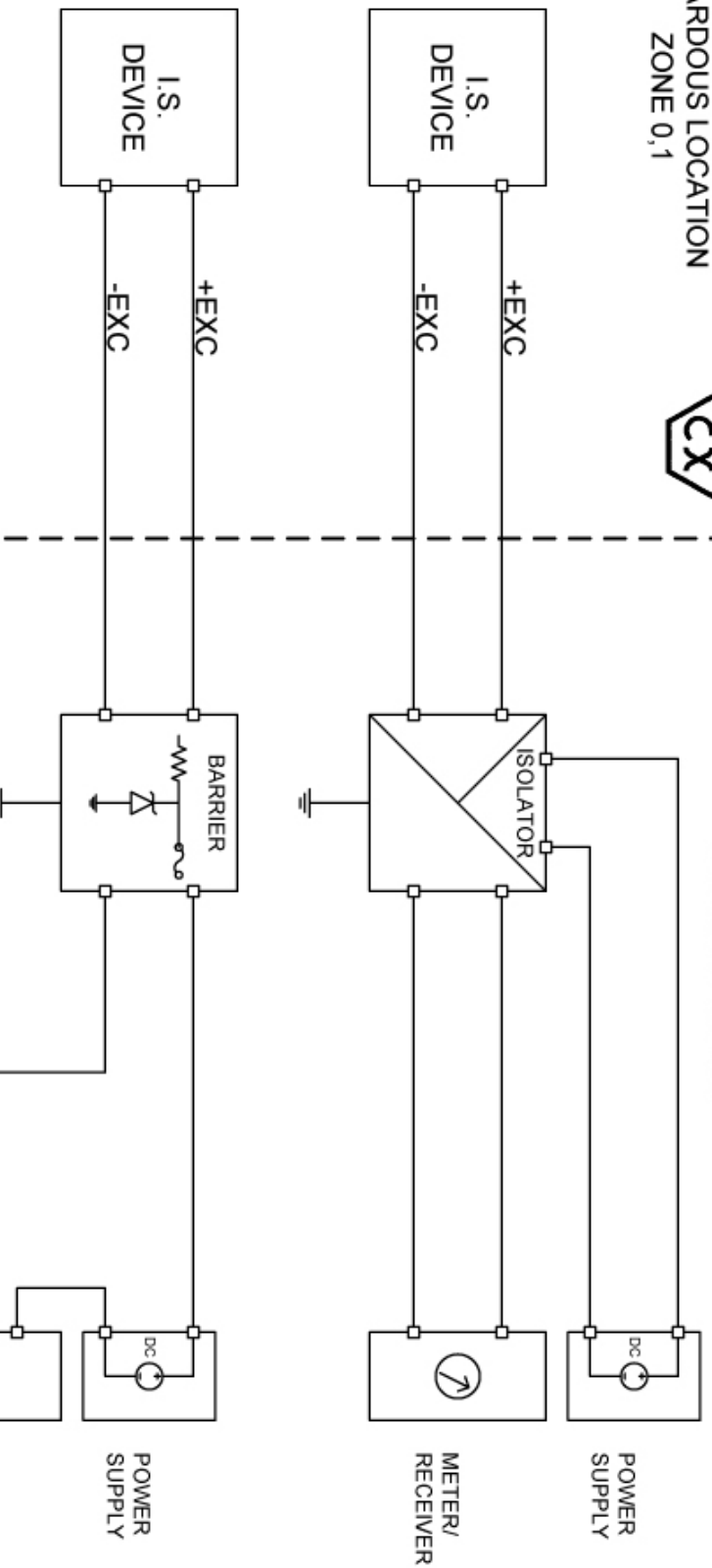
END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

HAZARDOUS LOCATION
ZONE 0,1



NON-HAZARDOUS



NOTES:

1) DEVICE MARKING

1 G EEx ia IIC T4 (Tamb. -40 to 85 °C)

2) ENTITY PARAMETERS:

U=28Vdc Ii=93mAdc Ci=11nF Li=0mH

3) CERTIFICATE #: DNV-2003-OSL-ATEX-0259

4) The installer should refer to the latest edition of the following standards before operating in a Hazardous Area.

EN 1127-1 Explosive Atmospheres - Explosion prevention and protection, basic concepts and methodology.

EN 60079-14 Electrical apparatus for explosive gas atmospheres - Part 14: Electrical installations in hazardous areas (other than mines)

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APPROVAL. NO
MODIFICATIONS PERMITTED
WITHOUT REFERENCE TO THE
NOTIFIED BODY

STI STELLAR TECHNOLOGY
I N C O R P O R A T E D

SIZE: A
DWG NO: 220218

559	B	05/14/03	FILENAME	SCALE	SHEET
554	A	05/06/03	220218B.VSD	N/A	1 OF 1
ECN	REV	DATE	TITLE DIAGRAM, INSTALLATION, XT2450/DT1450-135		



Intertek



QUALITY ASSURANCE NOTIFICATION

1. Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC (ATEX)
2. Manufacturers Notification Number: **ITS10ATEXQ7157**
3. Explosion Protection concept(s) covered by this Notification:
See schedule 1
4. Manufacturer **Stellar Technology Inc**
237 Commerce Drive
Amherst, New York 14228. USA

Intertek Testing & Certification Limited, Notified Body No. 0359 for Annexes IV and VII in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, confirms that the manufacturer has a quality system which complies with Annex IV of the Directive.

5. Full details of the Audit are held on file ref: 10049095 (INT-CH4426/A1)
6. This notification may be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV. Periodic inspection form part of this Notification.
7. This notification is valid until 23rd September 2013 and can be withdrawn if the manufacturer does not satisfy the quality assurance re-assessment.
8. The CE marking shall be followed by the identification number 0359 identifying the notified body involved in the production control stage required by Article 10 [1] of the Directive 94/9/EC.
9. This notification may only be reproduced in its entirety and without any change.

Intertek Testing & Certification Limited
Deeside Lane, Chester CH1 6DD
Tel: + 44 (0)1244 882590 Fax: +44 (0)1244 882599
<http://www.intertek.com>
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA



P Moss
Certification Officer
11 April 2011

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification Conditions for Granting Certification.



Intertek



QUALITY ASSURANCE NOTIFICATION

Notification Number: ITS10ATEXQ7157

Schedule 1

Explosion Protection Concepts for which the Manufacturer has been assessed

**Intrinsically Safe – Ex i.a.
Flameproof – Ex d**

Equipment Types for which the Manufacturer has been assessed

Pressure Sensors

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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EC Declaration of Conformity

In accordance with EMC Directive 89/336/EEC as Amended by 93/68/EEC
and ATEX Directive 94/9/EC

Manufacturer: Stellar Technology Incorporated
237 Commerce Drive
Amherst, NY 14228, USA

The manufacturer hereby declares that the products:

DT1450 and GT2450 Industrial Pressure Transducers

To which this declaration relates are declared as being in compliance with the requirements of EU Directive 94/9/EC & EMC Directive 89/336/EEC.

Equipment Specification: The full product specifications are listed in reports number RETS0374/A/1 & DNV Report No: 2004-3244.

The following Harmonized European Standards have been applied:

EN 61326: 1998 (Electrical equipment for measurement, control and laboratory use EMC Directive).
EN 61010-1:2001 (Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use).
EN 50014:1997 E incl. A1 and A2 (Electrical Apparatus for Potentially Explosive Atmospheres, General).
EN 50020: 2002 (Electrical Apparatus for Potentially Explosive Atmospheres, Intrinsic Safety).
EN 50284:1999 (Special Requirements for Construction, test, and Marking of Electrical Apparatus of Equipment Group II, Category 1 G.)

Declaration is based on report from notified body: Det Norske Veritas Certification AS, DNV-2003-OSL-ATEX-0259, notified body number 0575.

This Declaration May Only Be Used In Its Entirety and Without Change.

Robert Haefner

A handwritten signature in black ink, appearing to read 'Robert Haefner', is written over a faint, larger version of the signature.

President
Stellar Technology Incorporated

January 1, 2008

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INCORPORATED
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Fax: 716.250.1909
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Email: info@stellartech.com

ATEX Quality Assurance Notification Annex IV; Certificate Number: Epsilon 07
ATEX 02242.
ISO9001:2000 ECS Certification Number 2271

Part No. 229825A