



1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **EC-Type Examination Certificate Number:** ITS 06ATEX15124

4. **Equipment or Protective System:** GeoPump™ pump range

5. **Manufacturer:** Geosense Ltd

6. **Address:** Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk, IP30 9ND, United Kingdom

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. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the 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 Intertek Report number: 05018034 dated February 2006, 06021830 dated October 2006 and 101420750-LHD-001 dated May 2014.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 13463-1:2009 and EN 13463-5:2011 standards, except in respect of those requirements referred to at item 16 of the Schedule.

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, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



II 1 G, c T6

+1°C ≤Ta ≤+70°C

Intertek Testing & Certification Limited
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Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

V K Varma
Certification Officer
May 2014

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SCHEDULE

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13. **Description of Equipment or Protective System**

The GeoPump™ pump range comprises submersible automatic controllerless pneumatic pumps suitable for pumping of leachate and condensate from landfills and also for the selective pumping of hydrocarbons in groundwater remediation. The pump, fitted with inlet and outlet liquid non-return valves, has a float, free to move within an outer casing, which operates air inlet and exhaust valves, resulting in an air pressure and air vent cycle. This air cycle produces a corresponding intake and exhaust of liquid through the pump.

The pump operates by compressed air from 2 to 7 bar pressure.

Four types are available:

- GP4B – 4" OD GeoPump™ bottom loading
- GP4T – 4" OD GeoPump™ top loading
- GP3B – 3" OD GeoPump™ bottom loading
- GP3T – 3" OD GeoPump™ top loading

14. **Report Number**

Intertek Report Ref: 05018034 Issue: 0 Dated: February 2006

15. **Conditions of Certification**

(a). Special Conditions for safe use

- None

(b). Conditions of Manufacture

- None

16. **Essential Health and Safety Requirements (EHSR's)**

The relevant EHSR's have been identified and assessed in Intertek Report number: 05018034 Issue: 0 Dated: February 2006.

17. **Drawings and Documents**

Title	Drawing No.:	Rev. Level:	Date:
GP4B – 4" bottom loading pump	P0330 (Ex)	1	Dec 05
GP4T – 4" top loading pump	P0349 (Ex)	1	Dec 05
GP3B – 3" bottom loading pump	P0327 (Ex)	1	Dec 05
GP3T – 3" top loading pump	P0348 (Ex)	1	Dec 05
Label	P0386A-F	5	Feb 06

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18. Revisions

Certification Issue 1 – Report Number: 06021830 dated October 2006

1. Reduction in length in pump body to form GP4B – 4" XD GeoPump™ Bottom loading and GP4T – 4" XD GeoPump™ top loading.
2. Addition of a float stop spring to GeoPump™ range

Drawing

Title	Drawing No.:	Rev. Level:	Date:
Geopump GP4T (Top Loader)	P0349 (EX)	2	Jul-06
Geopump GP4B (Bottom Loader)	P0330 (EX)	2	Jul-06
Geopump GP3T (Top Loader)	PO348 (EX)	2	Jul-06
Geopump GP3B (Bottom Loader)	PO327 (EX)	2	Jul-06
Geopump GP4T XD (Extra Draw)	P0395 (EX)	2	Jul-06
Geopump GP4B XD (Extra Draw)	P0392 (EX)	2	Jul-06
Spring (Float Stop)	P0419 A/B	1	Jul-06

Certification Issue 2 – Report Number: 101420750 – LHD – 001 dated February 2014

1. To amend the company name from Marton Geotechnical Services to Geosense Ltd.
2. To amend the company address first line from Geotechnical Centre to Nova House.
3. Re-assessment of the Geosense range of pumps to the latest standards as below:
 - EN 13463-1:2009 Non-electrical equipment for use in potentially explosive atmospheres
 - EN 13463-5:2011 Non-electrical equipment intended for use in potentially explosive atmospheres Protection by constructional safety 'c'
4. Inclusion of a new model GP2T and GP2B to the Geosense range of pumps.

The assessment and test reports are kept within Intertek Certification Report Number 101420750 – LHD – 001 dated May 2014 incorporating job number G101420750.

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Drawing

Number	Issue	Date	Description
P0421 (EX)	1	28/04/2014	GEOPUMP GP2T
P0420 (Ex)	1	28/04/2014	GEOPUMP GP2B
P0386A-J	12	28/04/2014	ATEX PUMP LABEL

5. Amendment on revision number of all scheduled drawing from the certification at issue 1.

Drawing

Title	Drawing No.:	Rev. Level:	Date:
Geopump GP4T (Top Loader)	P0349 (EX)	3	10-10-2013
Geopump GP4B (Bottom Loader)	P0330 (EX)	3	10-10-2013
Geopump GP3T (Top Loader)	PO348 (EX)	3	10-10-2013
Geopump GP3B (Bottom Loader)	PO327 (EX)	3	10-10-2013
Geopump GP4T XD (Extra Draw)	P0395 (EX)	3	10-10-2013
Geopump GP4B XD (Extra Draw)	P0392 (EX)	3	10-10-2013
Spring (Float Stop)	P0419 A/B	7	28-04-2014

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