

[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: **DEMKO 05 ATEX 0439469X**

[4] Equipment or Protective System: **Models APEX and APEX Pro air sampling pump**

[5] Manufacturer: **Casella Group Ltd**

[6] Address: **Regent House, Wolseley Road, Kempston, Bedford MK42 7JY, UK**

[7] This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 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 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. 0439469

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 E incl. A1+A2 EN 50020: 2002 E incl.

[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 the certificate.

[12] The marking of the equipment or protective system shall include the following:

⊕ II 1G EEx ia IIB T4

On behalf of UL International Demko A/S

Herlev, 2005-04-19


Karina Christiansen
Certification Manager

UL International Demko A/S

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Certificate: 05 ATEX 0439469X

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P1

[13]

Schedule

[14]

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[15]

Description of Equipment or protective system

The unit is a personal, programmable, industrial hygiene sampling pump which is worn by the user to monitor contaminants in the air within the user's breathing zone. A sampling head with filter is connected to the air inlet nipple on the pump. The pump draws contaminated air in through the sampling head and later the filter is analyzed at a laboratory to determine the amount of contaminants absorbed during the sampling period.

Temperature range:

Ambient temperature range	Temperature class
+5°C to +40 °C	T4

Electrical data

One 4.8V rechargeable nickel metal hydride battery pack Part No. 03-182013C

[16]

Report No.

Project Report No.: 0439469 (Hazardous Location Testing)

Drawings:

Number	Date/Rev	Description
13-182154A/IS-05	2005-3-18/5	APEX I.S. PUMP – Pro Belt Clip Label
13-182153A/IS-05	2005-3-18/5	APEX I.S. PUMP – Belt Clip Label
13-182151B/IS-02	2004-11-17/2	APEX I.S. PUMP – Battery Pack label
03-182152C/IS-02A	2005-3-3/2A	APEX I.S. PUMP – Enclosure Assembly
93-182120D/IS-04	2005-1-7/4	APEX I.S. PUMP – Circuit Schematic
02-182121D/IS-03	2004-10-20/3	APEX I.S. PUMP – PCB Artwork
17-182161A/IS-04	2005-1-14/4	APEX I.S. PUMP – PCB Parts List
03-182013C/IS-06	2005-2-4/6	APEX I.S. PUMP – Battery Pack Assembly
93-182016B/IS-04	2004-10-14/4	APEX I.S. PUMP – Battery Board Schematic
05-182018B/IS-06	2005-1-10/6	APEX I.S. PUMP – Battery Board Component Layout
02-182017C/IS-04	2004-10-18/4	APEX I.S. PUMP – Battery Pack Trace Layout
05-182122C/IS-05	2005-3-8/5	APEX I.S. PUMP – PCB Sub Assembly
17-182162A/IS-05A	2005-2-3/5A	APEX I.S. PUMP – Battery Pack BOM
01-182157B/IS-01	2004-07-22/1	APEX I.S. PUMP – Pump Motor Assembly

[17]

Special conditions for safe use:

The battery pack is to be charged only in a non-hazardous area and with a charger suitable for the following entity parameters:

U_i = 15V, I_i = .6A

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

UL International Demko A/S

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Report: 0439469

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The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2005-04-19


Karina Christiansen
Certification Manager



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Page 2 of 2