

[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 07 ATEX 0626395X**

[4] **Equipment or Protective System: Intrinsically Safe Gas Detector**

[5] **Manufacturer: Industrial Scientific Corp.**

[6] **Address: 1001 Oakdale Rd., Oakdale, PA 15071, USA**

[7] This equipment or protective system and any acceptable variation thereto are 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. 06NK26395

[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**
EN 60079-0: 2006 **EN 60079-1: 2004**

[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 2 G EEx ia d IIC T4

On behalf of UL International Demko A/S

Herlev, 2007-07-06

Jan-Erik Storgaard
Certification Manager

UL International Demko A/S

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DK-2730 Herlev, Denmark
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Certificate: 07 ATEX 0626395

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Schedule

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[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 07 ATEX 0626395X

[15] Description of Equipment or protective system

Multi-Gas Monitor is a portable, battery operated, hand-held device designed to monitor and record data for combustible, oxygen, and up to four (4) toxic gases or vapours simultaneously. The device is configured to monitor gases or vapours via one of two integrated modules – a diffusion barrier or sample draw pump, model number SP6. The device provides audible, visual, and tactile alarms when predetermined levels of pertinent gas concentrations have been detected.

Nomenclature for type: MX6, optional sample pump SP6

Temperature range

The ambient temperature range is -20 °C to +40 °C.

Electrical data

All units are powered by three size "AA", alkaline batteries, Rayovac LR6 or Duracell MN1500 or by a Li-Ion battery pack part no. 17131038-1 or -2.

Routine tests

None.

Performance Testing

The measuring function of the apparatus for explosion protection, according to Annex II clause 1.5.5, 1.5.6 and 1.5.7 of the Directive 94/9/EC, is not covered in this certificate.

[16] Report No.

Project Report No.: 06NK26395 (Hazardous Location Testing)

Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
DTL: MARKINGS, MX6, DEMKO	1712A8422-600	0	2006/02/23
DTL: BOARD, BATT ALK, MULTIGAS	1712B8950-600	2	2007/01/11
SCHM: PCB, BATTERY, ALKALINE	1712B8968-400	4	2007/01/11
B/M: PCB, BATTERY, ALK	1712A8968-000	3	2007/02/01
IS SCHM: PCB, BATTERY, ALK	1712B8968-450	1	2006/12/18
ASSY: BATTERY, ALKALINE	1713A1046-300	0	2006/06/01
ASSY: LABEL; WARNING; ALK; UL; MX6	1712A9180-300	0	2007/01/19
ASSY: LABEL; WARNING; ALKALINE	1712A8703-300	2	2007/05/16
ASSY: MULTIGAS MONITOR	1810C6732-300	0	2006/06/01
DTL: BOARD, CORE, MULTIGAS	1712B7549-600	3	2006/10/21
IS SCHM: PCB, CORE, MULTIGAS	1712B7531-450	1	2007/06/20
SCHM: PCB, CORE, MULTIGAS	1712B7531-400	4	2006/10/20
B/M: PCB, CORE, MULTIGAS	1712A7531-000	1	2006/12/29
DTL: BOARD, DISPLAY, LCD SAFETY CKT	1712A6830-600	3	2006/07/31
IS SCHM: PCB, DISPLAY, LCD SAFETY CKT	1712B6822-450	1	2007/06/20

UL International Demko A/S

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Description:	Drawing No.:	Rev. Level:	Date:
SCHM: PCB, DISPLAY, LCD SAFETY CKT	1712B6822-400	4	2007/04/07
ASSY: PCB, DISPLAY, LCD SAFETY CKT	1712C6822-300	6	2007/05/07
SCHM: PCB, BATTERY, L-ION, MULTI-GAS	1712B8299-400	5	2007/01/16
DTL: BOARD, BATT, L-ION, MULTI-GAS	1712B8281-600	6	2007/01/31
IS SCHM: PCB, BATTERY, L-ION, MULTI-GAS	1712B8299-450	0	2006/12/18
B/M: PCB, BATTERY, L-ION, MULTI-GAS	1712A8299-000	3	2007/02/01
ASSY: BATTERY PACK, RECHARGEABLE	1712C7788-300	0	2006/05/30
ASSY: LABEL, BATTERY, LION, MG	1712A7747-300	0	2006/02/28
ASSY: LABEL; WRNG: LI-ION; UL; MX6	1713A4602-300	0	2007/01/19
DTL: BOARD, PWR MGR, MULTIGAS	1712A7564-600	3	2006/09/18
IS SCHM: PCB, PWR MGR, MULTIGAS	1712B7556-450	1	2007/06/20
SCHM: PCB, PWR MGR, MULTIGAS	1712B7556-400	4	2007/05/17
ASSY: PCB, PWR MGR, MULTIGAS	1712C7556-300	3	2007/05/29
B/M: PCB, PWR MGR, MULTIGAS	1712A7556-000	2	2007/05/30
DTL: RIGID PCB PROCUREMENT SPEC	1705A0403-600	13	2006/10/27
PUMP ASSEMBLY, PM-800	1712B8885500	1	2007/03/20
SAMPLING PUMP, SP6	1810A6765-000	0	2007/02/06
ASSY: LABEL APPROVAL, SP6	1713A6144-300	1	2007/06/26
ASSY: ADAPTER, PUMP MDL, MG, WELDED	1712B8927-300	1	2007/01/23
DTL: HOUSING, TOP, PUMP MDL, MULTIGAS	1712D8901-600	1	2007/01/22
STD: FUSE, .500A, FAST-ACTING, 0603	1712A9115-500	1	2007/06/12
STD: FUSE, .375A, FAST-ACTING, 0603	1712A9081-500	0	2006/03/07
STD: FUSE, 2A, FAST-ACTING, 0603	1712A9156-500	0	2006/03/14
STD: BUZZER, 98DB, RT ANGLE, PC MNT	1712A7259-500	0	2005/12/15
STD: MOTOR, VIBRATION, JINLONG	1712A7275-500	1	2006/08/03
STD: IND, 7.3UH, 3mm, SMT	1712A8349-500	0	2006/02/21
STD: IC, RTC, 3-SPI, 3.0 VOLT, SMT	1712A5964-500	0	2005/10/17
STD: DIODE, ZENER, 5.1V, SMT	1705A1601-500	1	2006/06/07
STD: DIODE, ZENER, 5.6V, 5W, 5%	1705A6912-500	1	2007/01/29
STD: DIODE, ZENER, 5.1V, 3W, SMT	1707A3743-500	0	1999/01/18
STD: DIODE, ZENER, 5.1V, 5W	1708A5879-500	1	2006/05/19
STD: DIODE, ZENER, 5.1V, 1/2W, SMT	1712A0247-500	1	2005/12/02
STD: SCHOTTKY DIODE, 4A, 10V, SMT	17125881	0	2005/09/15
DTL: HEATSINK, ZENER, MULTIGAS	1713B1210-600	0	2006/06/07

[17] Special conditions for safe use:

The device is for use in an ambient temperature of $-20^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ when used with the Li-ion battery pack. The device is for use in an ambient of $-20^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$ when used with alkaline batteries.

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[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.

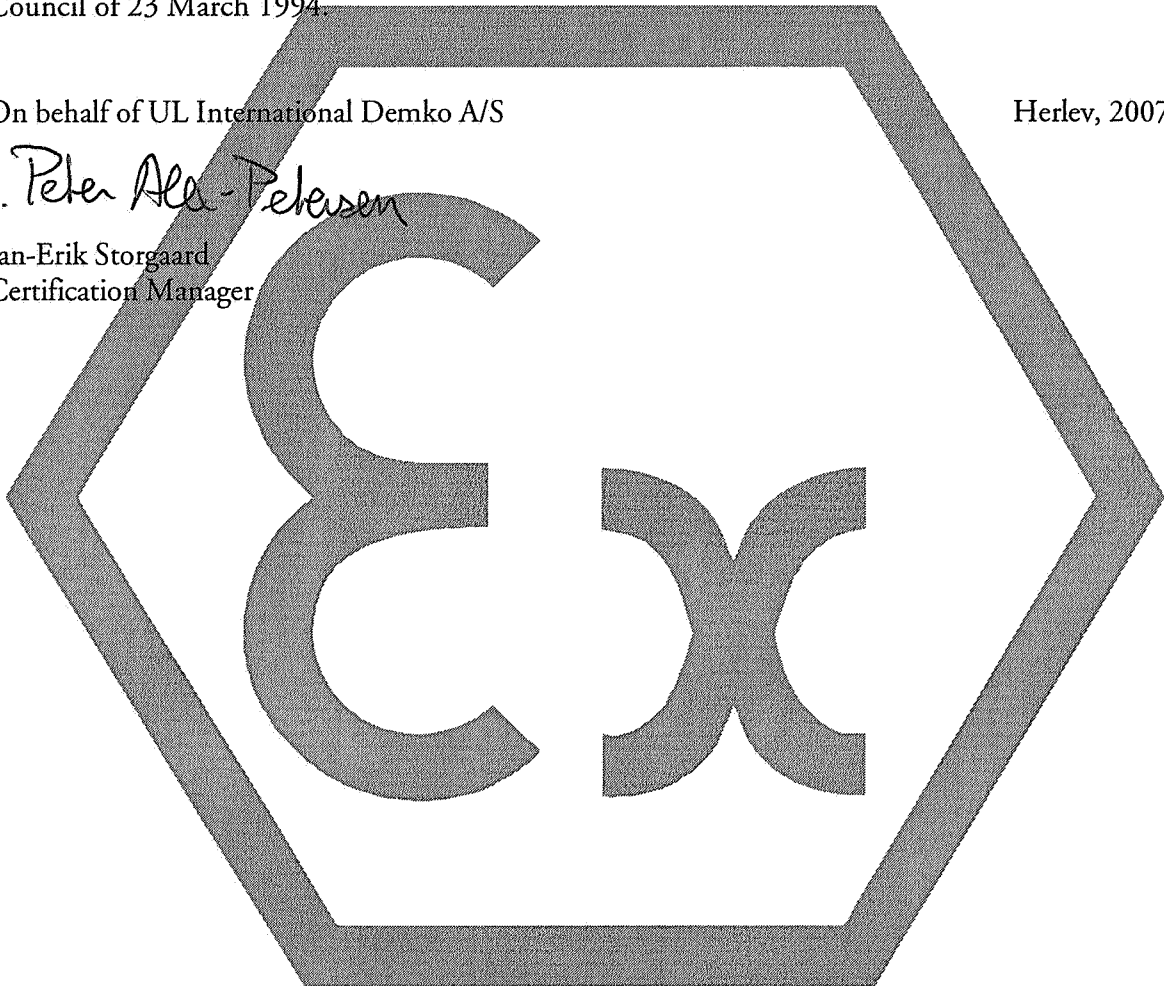
The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2007-07-06

f. Peter Alst-Petersen

Jan-Erik Storgaard
Certification Manager



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