

EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 13 ATEX 1255796X Rev. 0**
- [4] Equipment or Protective System: **Detective NET**
- [5] Manufacturer: **Crowcon Detection Instruments Ltd.**
- [6] Address: **2 Blacklands Way, Abingdon Business Park, Abingdon, OX14 1DY, U. K.**
- [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. **12CA55796**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012** **EN 60079-11:2012**
EN 60079-26:2007
- [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 1 G Ex ia IIC T4 Ga**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product(s) described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2013-08-07

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule
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[15] Description of Equipment or protective system

Detective NET is a battery operated cable-replacement device used for the linking together of gas detection instruments via a wireless network. The unit detects an alarm on one of the instruments, and relays it to the other instruments within the wireless network. It is housed within a polymeric enclosure, of overall approximate dimensions of 129 mm by 76 mm by 37 mm

Detective NET has been designed to be carried to a hazardous area and deployed onto gas detection instruments using a removable clip for a temporary period of time. It connects to the "Link Cable" port of a Detective/Detective Plus by means of a bespoke cable assembly.

The unit is powered by a single Panasonic CR-123A (alternatively identified as CR-123PE/BN) primary cell.

This certificate includes types "Detective NET 433", "Detective NET 868" and "Detective NET 915".

Temperature range

The ambient temperature range is -20 °C to +55 °C.

Electrical dataIntrinsically safe specifications:

Uo: 3.7 V
 Io: 14.3 mA
 Po: 8.7 mW
 Co: 999 uF
 Lo: 173 mH

Ui: 10 V
 Ii: 25 mA
 Pi: 62.5 mW
 Ci: 240 nF
 Li: 0

Mounting instructions

Refer to "Instructions".

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Report No.

Project Report No.: 12CA55796 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
Detective NET Certification Minimum Manual Content	ENG-000425	1	01/08/2013
Wireless Certification Label	MCAD-001871	01	20/05/2013
Wireless ATEX Certification Label	MCAD-002247	01	20/05/2013
Certification GA	MCAD-001950	01	13/06/2013
Rear Case	MCAD-001866	01	24/07/2013
Front Case	MCAD-001867	01	24/07/2013
Detective Pro Fixing Clip	MCAD-001869	01	28/01/2013
Detective+ Rigid Frame Fixing Clip	MCAD-001870	01	28/01/2013
Detective+ Folding Frame Fixing Clip	MCAD-001877	01	28/01/2013
Detective+ Bolt On Fixing Bracket	MCAD-001883	01	30/01/2013
Detective+ Bolt on Fixing Ring	MCAD-001884	01	30/01/2013
Internal Cable Assembly	MCAD-001885	01	30/01/2013
Bolt Together Fixing Clip	MCAD-001886	01	28/01/2013
Detective Wireless Fuse Encapsulation Details	MCAD-001981	1	08/13
868MHz or 915MHz Wireless Antenna	MCAD-001987	01	18/03/2013
433MHz Wireless Antenna	MCAD-001988	01	04/02/2013
Detective NET Interconnecting Cable Control Drawing	MCAD-002017	01	20/05/2013
Circuit Diagram, 3 pages	ECAD-000083-CD-CERT	2	12/06/2013



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Certified Parts List	ECAD-000083-PL-CERT	3	23/07/2013
Detective Wireless PCB, 5 pages	ECAD-000083-PCB-CERT	2	14/06/2013

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Special conditions for safe use:

- Special precautions are necessary to reduce the risk due to electro-static discharge in fixed installations. Refer to the installation/operation instructions.
- The capacitance measured at the metal shell of the external wiring connector is 7 pF. The user shall determine the suitability of the equipment in the end application.
- For installations in which both the Ci and Li of the connected apparatus exceeds 1% of the Co and Lo parameters (excluding the cable), then 50% of Co and Lo parameters are applicable and shall not be exceeded.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

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.

