

[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 06 ATEX 0617360X**

[4] **Equipment or Protective System: Process Control Instrument Type RCU II Explosion-Proof**

[5] **Manufacturer: Toptech Systems Inc.**

[6] **Address: 280 Hunt Park Cove
Longwood, FL 32750, USA**

[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. 06NK17360

[9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2006 EN 60079-1: 2004 EN 50020: 2002**

[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 Ex d ib IIB T4**

On behalf of UL International Demko A/S

Herlev, 2007-03-13

**Karina Christiansen
Certification Manager**

UL International Demko A/S

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Certificate: 06 ATEX 0617360X

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[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 06 ATEX 0617360X

[15]

Description of Equipment or protective system

The Process Control Instrument type RCU II EXPLOSION PROOF is designed to be used for data entry and driver/operator interaction at various locations within a terminal facility, as well as controlling entry and exit gates, load rack monitoring, and numerous other data collection and control functions. This is accomplished by the swiping of a badge or using the keypad to enter a numerical number to allow access.

Type nomenclature: "RCU II EXPLOSION PROOF"

The ambient temperature range: -40 °C to +60°C.

Electrical data

85-250 VAC, 47-63 Hz

Installation instructions

Installation Instructions shall also include the following:

- A recapitulation of the information with which the electrical apparatus is marked.
- All cable entry devices and blanking elements shall be certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.
- For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

Routine tests

Routine tests according to EN 60079-1 are not required, as the enclosure has been successfully tested at four times the reference pressure.

[16]

Report No.

Project Report Nos.: 06NK17360, SR1333602 (Hazardous Location Testing)

Drawings:

Number	Date	Rev.	Description
1402-A075	01-25-2007	1.0	RCU II EXPLOSION PROOF Unit Assembly
1402-A073	03-22-2007	1.0	RCU II EXPLOSION PROOF Cover Assembly
1402-A074	03-22-2007	1.0	RCU II EXPLOSION PROOF Base Assembly
1402-P071	01-05-2007	1.0	RCU II EXPLOSION PROOF Cover Details
1402-P070	01-31-2007	1.0	RCU II EXPLOSION PROOF Base Details
1402-B070	11-03-2006	1.0	RCU II EXPLOSION PROOF Bill of Materials

UL International Demko A/S

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Report: SR1333602

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Schedule

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 06 ATEX 0617360X

Drawings (continued):

Number	Date	Rev.	Description
1400-A670	12-07-2006	1.0	Restrictions on Keypad
1402-A078	11-02-2006	1.0	Display Bracket
1402-A079	11-02-2006	1.0	Prox Reader Bracket
1402-P074	01-31-2007	1.1	Regulatory Label
1400-S770	12-07-2006	1.1	Barrier Board – Schematic
1400-B770	12-07-2006	1.1	Barrier Board – Bill of Materials
1400-C770	12-11-2006	1.1	Barrier Board – Trace Layout
1400-A770	12-11-2006	1.1	Barrier Board – Component Layout
1400-P072	12-08-2006	1.0	Barrier Cover
1400-D003	04-12-2007	-	Installation Instruction Requirements

- [17] Special conditions for safe use:
If there are unused holes, blanking elements satisfying the flameproof “d” method of protection must be used. Blanking elements must be removable with the aid of a tool, ATEX certified, suitable for Gas Group IIB and suitable for an ambient temperature range of -40 °C to +60 °C.

- [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.

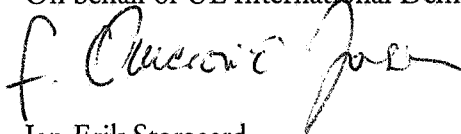
Additional information

The RCU II EXPLOSION PROOF has in addition passed the tests for Ingress Protection to IP 65 in accordance with EN60529: 1991/A1 2001.

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, 2007-04-30



Jan-Erik Storgaard
Certification Manager

UL International Demko A/S

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