

# EC-TYPE EXAMINATION CERTIFICATE




Equipment or Protective System intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

- [3] EC-Type Examination Certificate Number: DEMKO 03 ATEX 0215219
- [4] Equipment or Protective System: Transmitters for Monitoring Corrosion MT-9485, 9485A, ST-9485A and E-9020
- [5] Manufacturer: Rohrback Cosasco Systems Inc
- [6] Address: 11841 E Smith Ave, Santa Fe Springs CA 90670 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: 02NK15219
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 50014: 1997 E, and Amendments 1 and 2, EN 50018 : 2000 E, and Amendment 1
- [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 this 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 2G EEx d IIC T6

On behalf of UL International Demko A/S

Herlev, 2005-05-20

  
Karina Christiansen  
Certification Manager

**UL International Demko A/S**

Lyskaer 8, P.O. Box 514  
DK-2730, Herlev, Denmark  
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Certificate 03 ATEX 0215219

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## Schedule

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[15] Description of Equipment or protective system:

The MT-9485, and -9485A Transmitters are used for cathodic protection, which is a method of corrosion control for pipe lines and tanks from external soil corrosion. The data is stored temporarily in the data transmission section, until the data is called up by a field master unit. The MT-9485 is modified by incorporating "auto ranging" capability into it and now designated MT-9485A.

The E-9020 is the same as the MT-9485 except for the electronic measuring circuit within the flame proof enclosure.

The ST-9485A is the same as the MT-9485 except for the probe sensing material.

#### Temperature Range:

Ambient temperature range:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$

#### Electrical data:

##### Supply Voltage:

3.6V battery and 10 to 36 V dc

##### Current Consumption at:

10 V dc...75 mA...750 mW

15 V dc...45 mA...675 mW

20 V dc...32 mA...640 mW

24 V dc...26 mA...624 mW

30 V dc...20 mA...600 mW

##### Routine Tests:

Each main enclosure with connectors fitted, shall be subjected to a routine overpressure test of 15.95 bar for at least 10 seconds and no greater than 60 seconds as required by clause 16.1 of EN50018. There shall be no permanent deformation or damage to the enclosure.

Each connector main body shall be subjected to a routine overpressure test of 14.5 bar for at least 10 seconds and no greater than 60 seconds as required by clause 16.1 of EN50018. There shall be no permanent deformation or damage to the enclosure.

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# Schedule

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## EC-TYPE EXAMINATION CERTIFICATE No.

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[16] Report No.: 0315219 Report [02NK15219]  
[04NK22574]  
[05NK07865]

Drawings:

Drawing Number	Rev./ Date	Model	Title
702106, 1/2	K	MT & ST	System diagram
702200	A	MT	Transmitter assembly
748215	E	MT & E	Connector Detail
14540 - 003	B	MT & E	Nut
3550 - 125	D	MT & E	Connector
3800 - 009	E	MT & E	Cover
2050 - 008	C	MT & E	Base
2050 - 009	J	MT	Base Assembly
702152	E	MT & E	Base Weldment
14100 - 076	B	MT	Nameplate, warning
14100 - 075	K	MT & ST	Nameplate, Transmitter
710951	2004-10-12	E	System diagram
710950	2004-09-03	E	Transmitter top assembly
710974	2004-09-03	E	Base Weldment
710975	2004-09-03	E	Nameplate, warning
710977	A/2004-09-21	E	Nameplate, transmitter
702201		ST	Transmitter assembly

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.

[17] Special conditions for safe use: None

[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.

On behalf of UL International Demko A/S

Herlev, 2005-05-20

  
Karina Christiansen  
Certification Manager

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