

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 03 ATEX 0307915

[4] Equipment or Protective System: ML-9500B Datalogger

[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: 03NK07915

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 E Incl A1 + A2 EN 50018:2000 E incl A1,
EN 50020:2002 E

[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.

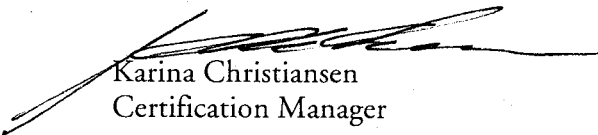
[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

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

Ⓔ II 2G EEx d [ia] IIC T4

On behalf of UL International Demko A/S

Herlev, 2003-12-22


Karina Christiansen
Certification Manager

UL International Demko A/S

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Certificate 03 ATEX 0307915

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[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 03 ATEX 0307915

[15]

Description of Equipment or protective system:

The ML-9500B data logger collects data from a transmitter – probe assembly. The data is information on corrosion control for pipe lines and tanks. The information can be downloaded to an intrinsically safe device.

Electrical data

3.6V size D primary cell lithium battery, part number LSH 20 by SAFT. The battery is in the ML-9500B, and feeds both the ML-9500B Datalogger, and MT-9485 or MT 9485A Transmitter.

Output

$U_o = 11.1 \text{ V dc}$	$U_i = 11.1 \text{ V dc}$
$I_o = 558 \text{ mA dc}$	$P_i = 0.3 \text{ W}$
$P_o = 1.55 \text{ W}$	$C_i = 0$
$C_o = 1.9 \text{ uF}$	$L_i = 0$
$L_o = 114 \text{ uH}$	

Temperature Range

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

Routine Tests

Each ML-9500B datalogger 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.

[16]

Report No.:

Project Report No.:03NK07915 (Hazardous Location Testing)

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Report: 03NK07915

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Drawings:

Number	Rev. /Date	Title
702132	E	Datalogger Schematic
702180	B	Data logger Assy
702130	H	PCB ASSY
702179	23 Jan 03	Shield
702178	22Aug 03	Label Warning
702176	E	Nameplate
702131		PCB
748215	C	Connector detail
14540-003	B	Nut
3550-125	D	Connector
3800-009	E	Cover
2050-008	C	Base
2050-009	F	Base Weldment

[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.

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, 2003-12-22


Karna Christiansen
Certification Manager

Certificate: 03 ATEX 0307915
Report: 03NK07915

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