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[2]

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 0316480
- [4] Equipment or Protective System: Roto-Bin Dicator LAR Series
- [5] Manufacturer: Venture Measurement Co., LLC
- [6] Address: 150 Venture Boulevard, Spartanburg, SC 29306, 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: 03NK16480.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN50014: 1997 + A1-A2: 1999 & EN50018: July 2000 + A1: 2002 &
EN50281-1-1: 1999 + A1: 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 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 2 G EEx d IIB T6 II 2 D T85 °C

This certificate replaces certificate with same number of 2003-12-30

On behalf of UL International Demko A/S

Herlev, 2004-04-07

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 0316480

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P1

[13]

Schedule

[14]

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[15]

Description of Component:

These are electromechanical devices used as level indicators of bulk materials handled in storage bins. The mechanism consists of a switch and motor enclosed in a flame proof housing with provisions for connection to rigid conduit. The motor slowly drives an external paddle. When the material in the bin partly or entirely covers the paddle, rotation is stopped and the motor torque actuates the Micro switch. When the material drops below the level of the paddle, the paddle rotates and the Micro switch returns to operate a signal device such as a light or bell.

Model/Type ref.:

Roto-Bin Dicator LAR Series

Single Switch AC Part Nos.: LAR100312, LAR100314, LAR100333,
LAR100335, LAR100337, LAR100339

Double Switch AC Part Nos.: LAR100313, LAR100315, LAR100334,
LAR100336, LAR100338, LAR100340

Single Switch AC Part No.: LAR101075

Double Switch AC Part No.: LAR101076

Rated current or power:

5 W (110/220 V) and 4 W (24 V)

Rated voltage:

110/220 V, 60 Hz and 24 V, 60 Hz

Installation Instructions

1. This device must be installed using only metallic conduit.
2. An EEx d IIB and Ex II 2 D rated IP6X certified stopping box provided in end use at the conduit opening.

[16]

Descriptive Documents

[16.1]

Drawings

Document Description	Document Number	Revision Level
Roto Bindicator XP Power Pac (ATEX)	LAR100312	P
Roto Bindicator Power Pack 24 VDC (ATEX)	LAR101075	E
Cover RX-2 Machining EX Proof	LAR111075	Redesigned
Roto Bindicator Switch	LAR130270	12-27-66
Roto Bindicator Motor	LAR130260	A
Roto Bindicator EX Proof Frame Machined	LAR122154	H
Insert, Brass	LAR120040	B
Installation Instructions - Single Switch AC	LAR180032	C

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Certificate: 03 ATEX 0316480

Report: 04NK09406



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P273

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Document Description (cont.)

Installation Instructions – Double Switch AC
Installation Instructions – Single Switch DC
Installation Instructions – Double Switch DC
Markings

Document
Number

LAR180042
LAR180052
LAR180062
LAR131457

Revision Level

C
C
C
D

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.

[16.2] Report No.: 03NK16480
04NK09406

[17] Special Conditions for Safe Use

[17.1] None.

18] Essential Health and Safety Requirements

Concerning EHSR that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. 03NK16480.

On behalf of UL International Demko A/S

Herlev, 2004.04.07


Karina Christiansen
Certification Manager

UL International Demko A/S

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P3/3

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