[1] # TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

[3] Type Examination Certificate Number: **DEMKO 09 ATEX 0919970X**

[4] Equipment: **Programmable Industrial Controllers, Input and Output modules 1734 Series**

[5] Manufacturer: **Rockwell Automation/Allen Bradley**

[6] Address: **1201 South 2nd Street, Milwaukee, WI, 53204 USA**

[7] This equipment 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 certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of **Category 3** equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential report no. **09CA19970**

[9] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to Standards:

EN 60079-0:2006 **EN 60079-15:2005**

[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 Type examination certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.

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

II 3 G Ex nA IIC T4

Certification Manager
Jan-Erik Storgaard

Certification Body

This certificate may only be reproduced in its entirety and without any change, schedule included

Date of issue 2009-09-02

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[13] [14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 09 ATEX 0919970X
Report: 09CA19970

[15] Description of Equipment:
Model 1734-IB8S and 1734-OB8S are open-type microprocessor based programmable controllers.

Nomenclature for 1734-IB8S and 1734-OB8S*:* The basic model number may be followed by series A or /A, to indicate series A.

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	**Temperature class**
-20°C T0 +55 °C	T4

Electrical data

Model 1734-OBS:
Backplane (no load): 0.190 A @ 5 VDC
Outputs: 19.2-28.8 VDC
1 A @ 40 °C, 0.5A @ 55 °C

Model 1734-IB8S:
Backplane (no load): 0.175 A @ 5 VDC
INPUTS:11-30 VDC @ 3.5 mA
Test Outputs: 19.2-28.8 VDC,
700 mA @ 40 °C, 500 mA @ 55 °C

Installation instructions Provided

Mounting instructions
Refer to “Instructions”.

Routine tests
Routine Dielectric test per EN60079-15: 2005, clause 34.2.1 is required.

[16] Descriptive Documents
Project Report No.: 09CA19970 (Hazardous Location Testing)

Documents:

Description:	**Drawing No.:**	**Rev. Level:**	**Date:**
1734-IB8S BOM, 9 pages	PN-25132	1	2009-06-24
Schematic, -IB8S, 15 pages	10000023050	00	2008-04-01
1734-OB83 BOM, 9 pages	PN-31815	1	2009-06-24
Schematic, -OB8S, 13 pages	10000023048	00	2008-04-01
Installation Instructions	1734-UM013B-EN-P	-	2009-June
Label	10000013551	00	2008-08-07
Label Supplement	10000057560	00	2009-05-13
Label IB8S	1000001349 03	3	-
Label OB8S	10000013550-03	3	-

[13] **Schedule**

[14] **TYPE EXAMINATION CERTIFICATE No.**
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[17] Special conditions for safe use:

- These products are to be mounted in IP54 enclosure in accordance with IEC 60529 and pollution degree 2 as defined in IEC 60664-1.
- The devices shall provide external means to prevent the rated voltage being exceeded by transient disturbances of more than 40%.
- This device shall be used only with ATEX certified backplanes.

[18] Essential Health and Safety Requirements
Met by compliance with the standards EN 60079-0:2006 and EN 60079-15:2006

Certification Manager
Jan-Erik Storgaard

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