

[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 06 ATEX 0612071X

[4]

Equipment: Communications Modules, Models 1756-IF8H and 1756-OF8H

[5]

Manufacturer: Rockwell Automation Inc.

[6]

Address: 1201 S 2<sup>nd</sup> ST, 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 number 06NK12071

[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 60079-15:2003**

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment 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 3G EEx nA IIC T4

On behalf of UL International Demko A/S

Herlev, 2006-12-21

Karina Christiansen  
Certification Manager

## UL International Demko A/S

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Certificate: 06ATEX0612071X

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**Underwriters  
Laboratories Inc.**

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**Schedule**  
**TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 06 ATEX 0612071X**  
**Report: SR4537184**

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Description of Equipment:

The communications modules are Analog Input and Output Modules.  
Models 1756-IF8H and 1756-OF8H.

These devices have additionally be evaluated to EN 60079-0:2006 and EN 60079-15:2005 and are now marked:

**Ex nA IIC T4**

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

Ambient temperature range	Temperature class
0 °C to +60 °C	T4

Electrical data

Model	Description	Backplane	Signal Rating
1756-OF8H	Analog Output Module	5.1 Vdc, 200 mA 24 Vdc, 230 mA	8 Outputs Current: 0 to 21mA Voltage: -10.4 to 10.4 V
1756-IF8H	Analog Input Module	5.1 Vdc, 300 mA 24 Vdc, 135 mA	8 Inputs Current: 0 to 20mA, 4 to 20mA Voltage: -10 to 10 V, 0 to 10V, 0 to 5V

Installation instructions

These products are used in an area of not more than Pollution Degree 2, as defined in IEC publication 60664-1.

Routine tests

Dielectric test is required per EN 60079-15: 2005, per clause 34.1.

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Descriptive Documents

Project Report No.: 06NK12071(Hazardous Location Testing)  
07NK06424(Hazardous Location Testing)  
08NK22728(Hazardous Location Testing)  
SR4537184

Drawings:

<b>Description:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
SCH, (1756-IF8HD schematic)	1700203-02	A.0	2004/09/08
Tx-HAO081, 1756 Series (1756-OF8H schematic)	1700196-05	B.0	2003/04/01
PCA, 1756-OF8H (bill of materials)	8100242-04	F	2005/11/14
PCA, 1756-IF8HD(bill of materials)	8100255-02	A	2005/11/14
8100242-04_F0 ( Assembly of chassis 1756-IF8HD)	A9060035-03	D.0	2004/08/12
9060036-03_D.0 (Assembly of chassis 1756-OF8H)	A9060036-03	D.0	2004/10/06
Assembly of total units	A8100255-02	A.0	2004/08/10
PCB 1756-IF8H	F1700203-03	C.0	2006/05/16
1756 PCB	F1700196-07	E.0	2006/05/22
Installation Instructions for 1756-OF8H	1756-IN609B-EN-P	-	2007/08
Installation Instructions for 1756-IF8H	1756-IN608B-EN-P	-	2007/08
1756-OF8H Label	A9060060-01	A.1	2007/04/03
1756-IF8H Label	A9060058-01	A.1	2007/04/03

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[14]

**Schedule**  
**TYPE EXAMINATION CERTIFICATE No.**  
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Special conditions for safe use:

- These products are intended to be mounted in an IP54 enclosure.
- The devices shall provide external means to prevent the rated voltages being exceeded by transient disturbances of more than 40%.
- This device must be used only with ATEX Certified backplanes.

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Essential Health and Safety Requirements

Met by compliance with the standards EN 60079-0:2006 and EN 60079-15:2006

Additional information

None.

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**Certification Manager**

Jan-Erik Storgaard

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**Date of issue** [2008-12-18]

**Certification Body**

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