[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 10 ATEX 1003478X**

[4] Equipment: **Analog Input Module, Model 1756-IF16H**

[5] Manufacturer: **Allen-Bradley**

[6] Address: **1201 S. 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. **SR7068764**

[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 60079-0:2009 **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: 2010-08-28
Re-issued: 2010-12-06

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Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 10 ATEX 1003478X
Report: SR7068764

[15] Description of Equipment:

This device is a 16-channel differential 0 – 20 mA and 4-20 mA current sensing analog input module with HART bus master capabilities for use in Rockwell Automation's ControlLogix system. It is to be installed in a separate enclosure rated IP54 minimum.

Temperature range
The ambient temperature range is 0 °C to +60 °C.

Electrical data

Model	Description	Power Input Rating	Input Rating
1756-IF16H	Analog Input Module	5.1Vdc, 200 mA 24Vdc, 125 mA	16 Inputs Current: 0-20mA, 4-20mA

Installation instructions
Device must be placed inside of an enclosure suitable for the location it is being installed in, rated IP54 minimum and used in an area of not more than pollution degree 2 as defined in IEC 60664-1.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 40%.

Device must be used with 1756-TBCH or 1756-TBS6H terminal blocks only. Secureness of cables is to be provided by the terminal blocks. Terminal blocks are not provided with this unit.

Wires used must be suitable for 30°C above ambient temperature.

Mounting instructions
Refer to "User Manual".

Routine tests
Electric Strength test shall be performed according to Clause 34.2 of EN 60079-15:2005.

[16] Descriptive Documents
Project Report No.: 10NK03478 (Hazardous Location Testing)
SR7068764

Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
User Manual	1756-UM533B-EN-P	-	2010-07
Packing Sheet	1756-PC004B-EN-P	-	2010-08
Packing Sheet #2	1564-A-1707	A	-
PCA, 1756-IF16H (Assembly Drawing)	A8100377-03	1.2	2010-02-03
ASSY, 1756-IF16H (Label)	A9060073-03	A.0	2010-06-18
PCA, 1756-IF16H (Bill of Materials)	A8100377-04	6	2010-05-12
PCB, 1756-IF16H (Schematics)	1700261-03	1.0	2010-03-23

[17] Special conditions for safe use:

- Device must be used with 1756-TBCH or 1756-TBS6H terminal blocks only.
- Device must be placed inside of an enclosure suitable for the location it is being installed in, rated IP54 minimum and used in an area of not more than pollution degree 2 as defined in IEC 60664-1.
- Provisions shall be made, either in the apparatus or external to the apparatus, to provide the transient protection device to be set at a level not exceeding 40% of the rated voltage at the power supply terminals of the apparatus.

[18] Essential Health and Safety Requirements
Met by compliance with the standards EN 60079-0: 2006 and EN 60079-15:2005

Additional information
The header of the terminal blocks are not provided with this unit. Secureness of cables is to be provided by the terminal blocks.