[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 08 ATEX 143397X**

[4] Equipment: **Ethernet Switch Base Models, 1783-MS06T, 1783-MS10T and Ethernet Switch Expansion Models 1783-MX08T and 1783-MX08F**

[5] Manufacturer: **Rockwell Automation, Inc.**

[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 number **07NK23302**

[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 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:

Ethernet Switch Base Models

II 3 G Ex nC nL IIC T4

Ethernet Switch Expansion Models

II 3 G Ex nA IIC T4

On behalf of UL International Demko A/S

Herlev, 2008-07-23

Jan-Erik Storgaard
Certification Manager

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[13] [14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 08 ATEX 143397X
Report: SR5331524

[15] Description of Equipment:

Models 1783-MS06T, 1783-MS10T, 1783-RMS06T, 1783-RMS10T, 1783-MX08T and 1783-MX08F are open-type, din-rail, wall or panel mounted Ethernet switch modules intended for installation into an enclosure providing adequate protection. Models 1783-MS06T, 1783-MS10T, 1783-RMS06T and 1783-RMS10T contain a relay that utilizes the Sealed Device protection method and a reset switch that utilizes the Energy Limited protection method. Models 1783-MX08T and 1783-MX08F are add-on Modules to the main Modules. They cannot operate independent of the 1783-MS06T, 1783-MS10T, 1783-RMS06T Models.

Models 1783-MS06T and 1783-MS10T utilize the followings boards, Mystique, MystiqueIF, Iceman, Phoenix, Night Crawler and Pryo. Model 1783-MX08F utilizes the SageIF and Sage boards. Model 1783-MX08T utilizes the Mystique and MystiqueIFP boards.

Nomenclature for Series IE and IEM Ethernet Switch Modules:

1783	-	MS06T
I		II

I	Series Designation	1783	Industrial Ethernet Modules
II	Ports	MS06T	Four RJ45 Ports
		MS10T	Eight RJ45 Ports
		RMS06T	Four RJ45 Ports
		RMS10T	Eight RJ45 Ports
		MX08T	Eight, fixed RJ45 Ports
		MX08F	Eight, fixed Optical Ports

Temperature range

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

Ambient temperature range	Temperature class
-40 °C to +60 °C	T4

Electrical data

Model	Electrical Rating	Protection Methods
1783-MS06T, 1783-MS10T	18-60 VDC, 1.0 A	Ex nC nL IIC T4
1783-RMS06T, 1783-RMS10T		
1783-MX08T	12.0 VDC, 0.3 A	Ex nA IIC T4
1783-MX08F	12.0 VDC, 1.0 A	Ex nA IIC T4

Installation instructions

Subject devices shall be mounted in a suitable enclosure rated at least IP54 as defined in EN60529 and Pollution Degree 2 a defined in IEC 60664-1, and used within their rated electrical and environmental ratings.

At least a 4 mm^2 conductor must be used when connection to external grounding screw is utilized

Provision shall be made, either in the apparatus or external to the apparatus, to prevent the rated voltage being exceeded by the transient disturbances of more than 40%.

Mounting instructions

Subject Models could be wall or panel mounted

Routine tests

A routine dielectric strength test shall be carried out in accordance with Clause 34.2.1 of EN 60079-15: 2005.

[16] Descriptive Documents

Project Report No.: 07NK23302 (Hazardous Location Testing)
09NK10140 (Hazardous Location Testing)
SR5331524

Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
Installation Instructions	1783-IN005D-EN-P	-	2009-09
Model 1783-MX08T Label (7 pages)	10000013903	02	2008-12-04
Model 1783-MS06T Label (7 pages)	10000014495	04	2009-04-20
Model 1783-MS10T Label (7 pages)	10000013883	04	2009-04-20
Model 1783-MX08F Label (7 pages)	10000014496	02	2008-12-04
Model 1783-RMS06T Label (9 pages)	10000063184	00	2009-06-29
Model 1783-RMS10T Label (9 pages)	10000063185	00	2009-06-29

[13] [14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 08 ATEX 143397X
Report: SR5331524

[17] Special conditions for safe use:

- Subject devices shall be mounted in a suitable enclosure rated at least IP54 as defined in EN60529 and Pollution Degree 2 a defined in IEC 60664-1, and used within their rated electrical and environmental ratings.
- At least a 4 mm^2 conductor must be used when connection to external grounding screw is utilized.
- Provision shall be made, either in the apparatus or external to the apparatus, to prevent the rated voltage being exceeded by the transient disturbances of more than 40%.

[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. 07NK23302.

Additional information
The Schedule has been modified to add the –RMS- model number in addition to the –MS- mentioned on the certificate.

Certification Manager
Jan-Erik Storgaard

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

Date of issue: 2009-12-11

Certification Body

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