

[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 03 ATEX 135419X Rev. 0**

[4]

Equipment: **Programmable Controllers, type AB75, AB76, AB78 or AB79 followed by 0-99**

[5]

Manufacturer: **HMS Industrial Networks AB**

[6]

Address: **Stationsgatan 37, 302 45 Halmstad, Sweden**

[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. **11CA47879**

[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 60079-0:2012 + A11:2013 EN 60079-15:2010

[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 Gc

Certification Manager

Jan-Erik Storgaard

Certification Body

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2004-05-28

Re-issued: 2013-03-17



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Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 135419X Rev. 0
Report: 11CA47897

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Description of Equipment:

These devices are open type programmable controllers, type AB75, AB76, AB78 or AB79 followed by 0-99 and any or no suffix may follow depending on configuration/version (numbers or letters) for use in industrial automation applications in hazardous locations. They are microprocessor-based and communicate via interfaces through wire, to be supplied by a limited power source. The controllers have LED status indicators for both active and fault conditions. The overall housing is made of a metal housing for din DIN-rail mounting. The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is covered in this certificate.

Nomenclature for type AB7acbd: abc-d (example: AB7566-B) or AB7bc-d

- a) Article
AB7 Anybus Gateway
- b) Module type
5, 6, 8, 9 Anybus X-gateway series
- c) Product configuration
xx Individual product configuration based on option board and software etc. (numeric range from 00 – 99)
- d) Configuration version
x Any or no suffix may follow depending on configuration/version (numbers or letters)

Temperature range:

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

Ambient temperature range	Temperature class
0 °C to +65 °C	T4

Electrical data:

12-30 Vdc, 400 mA input.
Cat.No. AB7603, AB7605, AB7606, AB7607, AB7609, AB7612, AB7613, AB7614, AB7615, AB7616, AB7617, AB7645, AB7664, AB7665, and AB7920 to AB7939.

All other Cat. No.
24 Vdc ±10% , 400mA

Installation instructions:

The programmable controllers shall be assembled in accordance with the instructions given by the manufacturer. Please refer to Description and Operating Instructions.

Routine tests:

No routine tests

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Descriptive Documents

Project Report No.: 11CA47897 (Hazardous Location Testing)

Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
7066 - ABX 1500, 1507, 1508 ATEX	SDS-7066-222	1.01	2014-03-12
7066 - Anybus X-gateway classic series Label Specification	SDS-7066-245	1.1	2014-03-12
Anybus-M ASI	SDS-7214-044	2.3.2	2011-10-07
Anybus-M DeviceNet	SDC-7124-043	2.3.7	2013-01-28
Anybus-S CC-Link IE Field Network	SDC-7237-004	1.1.1	2013-07-16
Anybus-S ETN 10/100	SDC-7188-005	2.1.2	2013-02-04
ABS-PDP	SDC-7103-059	2.2.2	2013-02-07
Anybus-S DeviceNet	SDC-7123-109	2.2.3	2010-03-25
Proj. 4028 AnyBus-S Modbus Plus	Fieldbus Specific	1.1.6	2013-02-07
Anybus-S RTU/MN2	SDC-7163-021	1.2.5	2011-01-03



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Schedule
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Anybus-M DPV	SDC-7104-017	1.1.2	2013-04-11
ABS-ABS Gateway	SDC-7066-005	1.4.1	2011-04-18

Drawings:	Drawing No.:	Rev. Level:	Date:
AnyBus-S CC-Link	SDC-7233-004	1.0.3	2013-02-05
Anybus-S CanOpen	SDC-7143-029	1.0.6	2013-01-29
Anybus-S ControlNet	SDC-7133-003	1.3.10	2013-07-22
Anybus-S EtherCAT	SDC-7301-001	3.3.3	2010-08-19
AnyBus-S FIPIO	SDC-7193-001	1.0.4	2013-02-05
Anybus-S IBS 2MB CU KUKA	SDC-7571-010	1.0.4	2013-01-25
AnyBus-S IBS 2MB FO KUKA	SDC-7571-003	1.0.3	2013-02-05
AnyBus-S - LonWorks	SIC-4119-001	1.3.1	2009-07-20
Anybus-S PROFINET IRT	SDC-7254-002	1.4.3	2010-09-01
Anybus-S PROFINET IRT FO	SDC-7257-007	1.0.2	2012-03-06
Bridgeway-CB	SDC-7801-001	1.2.6	2012-09-25
Bridgeway-CB	SDC-7801-045	1.2.2	2013-02-08

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Special conditions for safe use:

- Shall be used in an area with a classification of no more than pollution degree 2 and conforming to IEC 60664-1, and in an enclosure with a tool removable cover, that complies with the relevant requirements of EN60079-15, rated at least IP54.
- The device shall be connected to supply circuits where the rated voltage cannot be exceeded by 40% caused by transient disturbances.

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Essential Health and Safety Requirements

Met by compliance with the standards EN 60079-0:2012 and EN 60079-15:2010.

