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TYPE EXAMINATION CERTIFICATE



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

[3]

Type Examination Certificate Number: **DEMKO 12 ATEX 1062548X Rev. 0**

[4]

Equipment: **Anybus X-gateway CANopen Master and Anybus Communicator CAN series, Model AB73, followed by numbers 00 to 99, followed by additional suffixes numbers or letters.**

[5]

Manufacturer: **HMS Industrial Networks AB**

[6]

Address: **Stationsgatan 37, Halmstad, SE-30245, Sweden**

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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. **10CA62548**

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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 60079-15:2010

EN 60079-11:2007

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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.

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

II 3 G Ex nA ic IIC T4 Gc

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: 2012-07-19

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Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 12 ATEX 1062548X Rev. 0
Report: 10CA62548

Description of Equipment:

These devices are open-type devices intended for installation in an ultimate enclosure. These devices are for use in industrial automation applications. The Anybus X-gateway CANopen Master and Anybus Communicator CAN AB73 series includes a number of products (for different networks) comprising of a main carrier board, with one of several types of secondary board, all within a polymeric enclosure. The secondary boards are an internal part of the equipment, and are included in this certification. The Anybus X-gateway CANopen Master and equivalent Anybus Communicator CAN units differ only by software configuration (see Nomenclature).

Nomenclature:

Cat. No. AB73.

AB7	X	YY	-Z
I	II	III	IV
I.	Prefix for article number. AB7 – Anybus Gateway.		
II.	Module type. 3 – Anybus-X CAN gateway series.		
III.	Product configuration. YY - 00 to 99 individual product configuration based on option board, software, etc.		
IV.	Configuration version. Z – Any or no suffix may follow (numbers or letters).		

Other letter/number combinations may be used based upon differences of configuration of software

Anybus X-gateway CANopen

Model name	Model No.	Designation	Secondary Board
CANopen to EtherCAT Slave	AB7300-B	ABX-COP-ECT	ABS-ECT
CANopen to PROFIBUS DP-V1 Slave	AB7301-B	ABX-COP-PDP	ABS-PDP
CANopen to DeviceNet Adapter	AB7302-B	ABX-COP-DEV	ABS-DEV
CANopen to ControlNet Adapter	AB7303-B	ABX-COP-CNT	ABS-CNT
CANopen to CANopen Slave	AB7304-B	ABX-COP-COPS	ABS-COPS
CANopen to Ethernet/IP Slave	AB7306-B	ABX-COP-EIP2	ABS-EIP2/EIT2
CANopen to PROFINET Slave	AB7307-B	ABX-COP-PRT	ABS-PRT
CANopen to Modbus-TCP Slave	AB7308-B	ABX-COP-EIT2	ABS-EIP2/EIT2
CANopen to PROFINET IRT Slave	AB7309-B	ABX-COP-PIR	ABS-PIR
CANopen to CC Link	AB7310-B	ABX-COP-CCL	ABS-CCL

Anybus Communicator CAN

Model name	Model No.	Designation	Secondary board
CAN to EtherCAT Slave	AB7311-B	ABC-CAN-ECT	ABS-ECT
CAN to PROFIBUS DP-V1 Slave	AB7312-B	ABC-CAN-PDP	ABS-PDP
CAN to DeviceNet Adapter	AB7313-B	ABC-CAN-DEV	ABS-DEV
CAN to ControlNet Adapter	AB7314-B	ABC-CAN-CNT	ABS-CNT
CAN to CANopen Slave	AB7315-B	ABC-CAN-COPS	ABS-COPS
CAN to Ethernet/IP Slave	AB7317-B	ABC-CAN-EIP2	ABS-EIP2/EIT2
CAN to PROFINET Slave	AB7318-B	ABC-CAN-PRT	ABS-PRT
CAN to Modbus-TCP Slave	AB7319-B	ABC-CAN-EIT2	ABS-EIP2/EIT2
CAN to PROFINET IRT Slave	AB7320-B	ABC-CAN-PIR	ABS-PIR
CAN to CC Link	AB7321-B	ABC-CAN-CCL	ABS-CCL

Temperature range

The temperature range is -25°C to +55 °C.

Electrical data

24Vdc, 250mA

Mounting instructions

Refer to "Instructions".



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Descriptive Documents

Project Report No.: 10CA62548 (Hazardous Location Testing)

Drawings:

Description:	Drawing No.:	Rev. Level:	Date:
Anybus X-gateway CANopen – EtherCAT Installation Sheet (ABX-COP-ECT)	SP1190	2.00	2012-04
Anybus X-gateway CANopen – PROFIBUS Installation Sheet (ABX-COP-PDP)	SP1191	2.00	2012-04
Anybus X-gateway CANopen – DeviceNet Installation Sheet (ABX-COP-DEV)	SP1192	2.00	2012-04
Anybus X-gateway CANopen – ControlNet Installation Sheet (ABX-COP-CNT)	SP1193	2.00	2012-04
Anybus X-gateway CANopen – CANopen Slave Installation Sheet (ABX-COP-COPS)	SP1194	2.00	2012-04
Anybus X-gateway CANopen – EtherNet/IP Installation Sheet (ABX-COP-EIP2)	SP1196	2.00	2012-04
Anybus X-gateway CANopen – PROFINET Installation Sheet (ABX-COP-PRT)	SP1197	2.00	2012-04
Anybus X-gateway CANopen – Modbus-TCP Installation Sheet (ABX-COP-EIT2)	SP1198	2.00	2012-04
Anybus X-gateway CANopen – PROFINET IRT Installation Sheet (ABX-COP-PIR)	SP1199	2.00	2012-04
Anybus X-gateway CANopen – CC-Link Installation Sheet (ABX-COP-CCL)	SP1432	1.00	2012-04
Anybus Communicator CAN – EtherCAT Installation Sheet (ABX-COP-ECT)	SP1306	2.00	2012-04
Anybus Communicator CAN – PROFIBUS Installation Sheet (ABX-COP-PDP)	SP1307	2.00	2012-04
Anybus Communicator CAN – DeviceNet Installation Sheet (ABX-COP-DEV)	SP1308	2.00	2012-04
Anybus Communicator CAN – ControlNet Installation Sheet (ABX-COP-CNT)	SP1309	2.00	2012-04
Anybus Communicator CAN – CANopen Slave Installation Sheet (ABX-COP-COPS)	SP1310	2.00	2012-04
Anybus Communicator CAN – EtherNet/IP Installation Sheet (ABX-COP-EIP2)	SP1313	2.00	2012-04
Anybus Communicator CAN – PROFINET Installation Sheet (ABX-COP-PRT)	SP1312	2.00	2012-04
Anybus Communicator CAN – Modbus-TCP Installation Sheet (ABX-COP-EIT2)	SP1314	2.00	2012-04
Anybus Communicator CAN – PROFINET IRT Installation Sheet (ABX-COP-PIR)	SP1315	2.00	2012-04
Anybus Communicator CAN – CC-Link Installation Sheet (ABX-COP-CCL)	SP1316	2.00	2012-04
Anybus CAN CB (Main board), Schematics and BoM	SDC-7099-006	1.1.1	2010-02-26
Anybus CAN CB (Main board), PCB Layout	1019	1.1.1	2010-03-08



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Drawings (cond.):

Description:	Drawing No.:	Rev. Level:	Date:
Anybus X-gateway CANopen – Secondary board EtherCAT Schematics and BoM (ABS-ECT)	SDC-7301-001	3.3.2	2010-08-19
Anybus X-gateway CANopen – Secondary board PROFIBUS Schematics and BoM (ABS-PDP (aka DPV))	SDC-7103-059	2.2.1	2010-07-14
Anybus X-gateway CANopen – Secondary board DeviceNet Schematics and BoM (ABS-DEV)	SDC-7123-109	2.2.3	2010-03-25
Anybus X-gateway CANopen – Secondary board ControlNet Schematics and BoM (ABS-CNT)	SDC-7133-003	1.3.7	2010-05-24
Anybus X-gateway CANopen – Secondary board CANopen Slave Schematics and BoM (ABS-COPS)	SDC-7143-029	1.0.5	2010-07-07
Anybus X-gateway CANopen – Secondary board EtherNet/IP Schematics and BoM (ABS-EIP/EIT2)	SDC-7295-001	2.2.1	2009-07-13
Anybus X-gateway CANopen – Secondary board PROFINET Schematics and BoM (ABS-PRT)	SDC-7188-005	2.1.1	2010-04-06
Anybus X-gateway CANopen – Secondary board PROFINET IRT Schematics and BoM (ABS-PIR)	SDC-7254-002	1.4.3	2010-09-01
Anybus X-gateway CANopen – Secondary board CC-Link Schematics and BoM (ABS-CCL)	SDC-7233-004	1.0.2	2010-09-16
7099 – Anybus X-gateway CANopen Master & Anybus Communicator CAN Label Specification	SDS-7099-083	1.0	2012-04-05

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Special conditions for safe use:

- Must be installed within a suitable ATEX certified IP54 rated end-use enclosure, pollution degree 2 as per IEC60664-1.

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Essential Health and Safety Requirements

- Met by compliance with the standards EN 60079-0:2009, EN 60079-11:2007, EN 60079-15:2010

