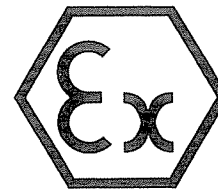


[1] **EC-TYPE EXAMINATION CERTIFICATE**



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

[3] EC-Type Examination Certificate Number: **DEMKO 06 ATEX 0511610X**

[4] Equipment or Protective System: **Control Wave Micro Series Programmable Contoller**

[5] Manufacturer: **Bristol Babcock Inc.**

[6] Address: **1100 Buckingham Street, Watertown, CT 06795, USA**

[7] This equipment or protective system and any acceptable variation there to is 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. **05NK09925**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50021: 1999

[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 EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

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

Ex II 3G EEx nC IIC T4 Tamb = -40°C to +70°C

On behalf of UL International Demko A/S

Herlev, 2006-03-13

Karina Christiansen
Certification Manager

Certificate: 06 ATEX 0511610X

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[13]

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 06 ATEX 0511610X

[15] Description of Equipment or protective system

Open type device that employs a scalable, modular hardware design. Units contain a base backplane that supports open type device that employs a scalable, modular hardware design. Units contain a base backplane that supports 2 or 6 I/O modules. An expansion backplane can be added to the base backplane providing an additional 2, 4 or 8 I/O modules. Each Control/Wave Micro Process Automation Controller is comprised of a backplane board (mounted in the Chassis), a Power Supply Module, a CPU Module and from 0 to 14 I/O modules. All system modules plug into the backplane board (2 I-O slot base, 6 I-O slot base or 2 8 I/O expansion backplanes. Power is generated and regulated by the Power Supply/Sequencer module that provides +3.3 Vdc. The digital input isolated card provided an isolated 21 Vdc for contact closure.

Models and Types:

Base Backplane:

396560-02-4, 396560-01-6

Expansion Backplane:

396559-03-4, 396559-02-6, 396559-01-8

Power Supply Module:

396564-01-1, 396657-01-0, 396609-01-5, 396609-02-3

CPU Module W & W/O Ethernet:

396563-02-3, 396563-01-5, 396563-04-0, 396563-05-8, 396563-06-6, 396563-03-1

DIO Module:

396567-04-5, 396567-03-7, 396567-02-9, 396567-01-0

AIO Module:

396568-02-5, 396568-01-7

AI Module:

396569-02-1, 396569-01-3

HSC Module:

396570-04-6, 396570-03-8, 396570-02-0, 396570-01-1

Isolated DI Module:

396571-04-2, 396571-03-4, 396571-02-6, 396571-01-8

Isolated DO Module:

396572-04-9, 396572-03-0, 396572-02-2, 396572-01-4

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Isolated AO Module:

396603-01-7, 396603-02-5

Isolated AI Module:

396604-01-3, 396604-02-1

Display Module:

396608-01-9, 396608-02-7

MIO Module W & W/O AO Board:

396630-01-4, 396630-02-2

Communication Module:

396581-01-3

The ambient temperature range is $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$.

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

Ambient temperature range

$-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$

Temperature class

T4

Electrical data

DO Module 396572-04-9, 396572-03-0, 396572-02-2, 396572-01-4 - 66.54 mA @ 3.3 VDC

DI Module 396571-04-2, 396571-03-4, 396571-02-6, 396571-01-8 - 50.6 mA @ 3.3 VDC, 94 mA @ 24 VDC (Internally Sourced)

HSC Module 396570-04-6, 396570-03-8, 396570-02-0, 396570-01-1 - 22.83 mA @ 3.3 VDC

AI Module 396569-02-1, 396569-01-3 - 2.5 mA @ 3.3 VDC

AIO Module 396568-02-5, 396568-01-7 - .77 mA @ 3.3 VDC, 47.2 mA @ Vext (11-30V)

Isolated AO 396603-01-7, 396603-02-5 - 52 mA @ 3.3 VDC, 88 mA @ Vext (11-30V)

Isolated AI - 396604-01-3, 396604-02-1 - 29 mA @ 3.3 VDC, 308 mA @ Vext (11-30V)

DIO Module, Remote 396567-04-5, 396567-03-7, 396567-02-9, 396567-01-0 - 59.7 mA @ 3.3 VDC

Power Supply Module 396564-01-1, 396657-01-0 - 2A @ 24 VDC, 4A @ 12VDC; 396609-01-5, 396609-02-3 - 0.28 A @ 12 VDC

CPU Module, W/Ethernet 396563-02-3, 396563-06-6 - 240 mA @ 3.3 VDC

CPU Module, W/O Ethernet 396563-01-5, 396563-04-0, 396563-05-8, 396563-03-1 - 220 mA @ 3.3 VDC

Base and Expansion Backplane 396560-01-6, 396560-02-4, 396559-03-4, 396559-02-6, 396559-01-8 - 2 mA @ 3.3 VDC

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Display Module 396608-01-9, 396608-02-7 - 5 mA @ 3.3 VDC

MIO Module, W & W/O AO Board 396630-01-4, 396630-02-2 - 50 mA @ 3.3 VDC, 24 mA @ Vext (11-30)

Communication Module 396581-01-3 - 400 mA @ 3.3 VDC, 510 mA @ Vext 12 VDC

Installation instructions

Each module is individually packed with installation instruction and requirements for end use enclosure. All electrical and environmental data relating to the use of each device is contained therein.

Mounting instructions

These devices are intended to mount on DIN rails inside an IP54 enclosure. Mounting instructions are provided as part of the Operating Instructions shipped with each device.

Routine tests

None.

[16] Report No.
Project Report No.: 05NK11610 (Hazardous Location Testing)

Drawings:

DIO Modules (Models 396567-04-5, 396567-03-7, 396567-02-9, 396567-01-0)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400032-00-7, rev. 3	2003-04-22	Next Generation RTU Non Isolated Discrete Inupts/OutPuts (Schematics)
400032-75-9, rev. A	2003-07-22	PCB Assembly Digital I/O (Trace Layout)
400032-01-5 (3 pages), rev. F	2003-07-10	Bill of Material for Models , 396567-02-9, 396567-01-0
400032-02-3 (3 pages), rev. E	2003-07-10	Bill of Material for Models , 396567-04-5, 396567-03-7
400042-01-0, rev. B	2003-07-23	Bill of Material Control WaveMicro LED Board for Models 396567-04-5, 396567-02-9

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AI and AIO Modules (Models 396569-02-1, 396569-01-3, 396568-02-5, 396568-01-7)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400034-00-0, rev. 2	2003-05-22	Next Generation RTU Isolated Analog Inupt/OutPut Board (Schematics)
400034-75-1 (pages 2), rev. A	2003-07-22	PCB Assembly Analog I/O (Trace Layout)
400034-01-8 (pages 4), rev. F	2003-07-10	Bill of Material for Model 396568-01-7
400034-02-6 (pages 4), rev. G	2003-07-31	Bill of Material for Model , 396568-02-5
400034-03-4 (pages 2), rev. B	2003-07-10	Bill of Material for Model , 396569-01-3
400034-04-2 (pages 2), rev. B	2003-07-10	Bill of Material for Model , 396569-02-1

Isolated AI Modules (Models 396604-01-3, 396604-02-1)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400059-00-2 (pages 3), rev. 1	2004-03-07	CW Micro Isolated Analog Input BD (Schematics)
400059-75-4, rev. A	2004-03-09	CW Micro Isolated Analog Input (Trace Layout)
400059-01-0 (pages 6), rev. B	2004-02-17	Bill of Material CW Micro Isolated Analog Input w/ Local Term for Model 396604-01-3
400059-02-9 (pages 6), rev. C	2004-02-17	Bill of Material CW Micro Isolated Analog Input w/ Remote Term for Model 396604-02-1

Isolated AO Modules (Models 396603-01-7, 396603-02-5)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400060-00-0 (pages 3), rev. 1	2004-03-05	CW Micro Isolated Analog Output BD (Schematics)
400060-75-2, rev. A	2004-03-09	CW Micro Isolated Analog Output (Trace Layout)
400060-01-9 (pages 6), rev. B	2004-02-17	Bill of Material CW Micro Isolated Analog Output Board w/ Local Term for Model 396603-01-7
400060-02-7 (pages 5), rev. B	2004-02-17	Bill of Material CW Micro Isolated Analog Output Board w/ Remote Term for Model 396603-02-5

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HSC Module (Model 396570-04-6, 396570-03-8, 396570-02-0, 396570-01-1)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400039-00-1, rev. 3	2003-05-02	Next GEN RTU High Speed Counter Board (Schematics)
400039-75-3, rev. A	2003-07-22	PCB Assembly High Speed Counter (Trace Layout)
400039-01-0 (pages 2), rev. F	2003-07-23	Bill of Material for Models 396570-02-0, 396570-01-1
400039-02-8 (pages 2), rev. E	2003-07-23	Bill of Material for Models 396570-04-6, 396570-03-8
400042-01-0, rev. B	2003-07-23	Bill of Material Control WaveMicro LED Board for Models 396570-04-6, 396570-02-0

DI Module (Model 396571-04-2, 396571-03-4, 396571-02-6, 396571-01-8)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400052-00-8, rev. 3	2003-07-10	CW Micro Isolated Digital Inputs (Schematics)
400052-75-0, rev. A	2003-07-22	PCB Assembly Digital Input (Trace Layout)
400042-01-0, rev. B	2003-07-23	Bill of Material Control WaveMicro LED Board for Models 396571-04-2, 396571-02-6
400052-01-6 (pages 4), rev. D	2003-07-10	Bill of Material CW Micro Isolated Digital Input BD w/ Local Term for Models 396571-02-6, 396571-01-8
400052-02-4 (pages 4), rev. C	2003-07-10	Bill of Material CW Micro Isolated Digital Input BD w/ Remote Term for Models 396571-04-2, 396571-03-4

DO Module (Model 396572-04-9, 396572-03-0, 396572-02-2, 396572-01-4)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400054-00-4, rev. 1	2003-05-16	CW Micro Isolated Digital Outputs (Schematics)
400053-75-6, rev. A	2003-07-22	PCB Assembly Digital I/O (Trace Layout)
400042-01-0, rev. B	2003-07-23	Bill of Material Control Wave Micro LED Board for Model 396572-04-9, 396572-02-2
400053-01-2 (pages 2), rev. C	2003-07-31	Bill of Material CW Micro Isolated Digital Output w/ Local Term Output for Model 396572-01-4
400053-02-0 (pages 2), rev. C	2003-07-31	Bill of Material CW Micro Isolated Digital Output w/ Remote Term Output for Models 396572-04-9, 396572-03-0

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LED Drawings for DO (Models 396572-04-9, 396572-02-2), DI (Models 396571-04-2, 396571-02-6), HSC (Models 396570-04-6, 396570-02-0), DIO (Models 396567-04-5, 396567-02-9)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400042-00-2, rev. 0	2003-01-10	Next Generation RTU LED Board (Schematics)
400042-75-4, rev A	2003-07-22	PCB Assembly I/O LED (Trace Layouts)
400042-01-0, rev. B	2003-07-23	Bill of Material for LED Board for Models 396570-04-6, 396570-02-0

Enclosure Drawing for AI (Models 396569-02-1, 396569-01-3), AIO (Models 396568-02-5, 396568-01-7), Isolated AO (Models 396603-01-7, 396603-02-5), Isolated AI (Models 396604-01-3, 396604-02-1), DIO (Models 396567-04-5, 396567-02-9, 396567-03-7, 396567-01-0), DO (Models 396572-04-9, 396572-03-0, 396572-02-2, 396572-01-4), DI (Models 396571-04-2, 396571-03-4, 396571-02-6, 396571-01-8), HSC (Models 396570-04-6, 396570-03-8, 396570-02-0, 396570-01-1)

<u>Number</u>	<u>Date</u>	<u>Description</u>
721690-01-7 (pages 2), rev. A	2003-07-23	IO Module Assembly, C.W. Micro

CPU with and without Ethernet Modules (Models 396563-02-3, 396563-01-5)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400036-00-2 (pages 10), rev. 1	2003-04-10	Block Diagram and Schematics for CPU
400036-75-4, rev. A	2003-07-22	PCB Assembly CPU (Trace Layout)
400036-01-0 (pages 5), rev. F	2003-08-05	Bill of Material
721688-01-2, rev. A	2003-07-23	CPU Module Assembly, C.W. Micro

CPU with Ethernet Modules (Models 396563-06-6)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400058-00-6 (pages 10), rev. 0	2003-11-10	Block Diagram, and Schematics
400058-75-8, rev. A	2004-03-12	PCB Assembly CPU (Trace Layout)
400058-04-9 (pages 5), rev. B	2004-08-13	Bill of Material Control WaveMicro CPU w/ Ethernet 16MB Flash
721688-03-9, rev. A	2004-01-27	CPU Module Assembly, C.W. Micro

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CPU without Ethernet Modules (Models 396563-04-0, 396563-05-8, 396563-03-1)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400058-00-6 (pages 10), rev. 0	2003-11-10	Block Diagram and Schematics
400058-75-8, rev. A	2004-03-12	PCB Assembly CPU (Trace Layout)
400061-75-9, rev. A	2004-02-27	PCB Assembly, Battery Backup (Trace Layout)
400058-01-4 (pages 4), rev. C	2003-12-16	Bill of Material Control WaveMicro CPU EFM w/o Ethernet
400058-02-2 (pages 4), rev. B	2004-08-13	Bill of Material Control WaveMicro CPU w/o Ethernet (for Model 396563-04-0)
400058-03-8 (pages 4), rev. B	2004-08-13	Bill of Material Control WaveMicro CPU w/o Ethernet 16MB Flash (for Model 396563-05-8)
400061-01-5	2004-01-27	Bill of Material CW Battery Backup Board
721698-01-8, rev. A	2004-03-01	CPU and Battery Backup Module Assembly, C.W. Micro

Power Supply Module (Model 396564-01-1)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400040-00-0 (pages 2), rev. 1	2003-04-11	Schematics for Power Supply
400040-75-1, rev. A	2003-07-22	PCB Assembly Power Supply (Trace Layout)
400036-01-0 (pages 5), rev. F	2003-08-05	Bill of Material
721687-01-6, rev. A	2003-07-21	Power Supply Module Assembly, C.W. Micro

Power Supply Module (Model 396609-01-5)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400056-00-3, rev. 1	2003-11-10	EW Micro EFM Power Supply
400056-75-4, rev. A	2004-02-27	PCB Assembly System Controller (Trace Layout)
400056-01-1 (pages 5), rev. B	2004-02-02	Bill of Material CW Micro EFM System Controller
721694-01-2, rev. A	2003-11-12	System Controller Module Assembly

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400047-75-6, rev. A	2003-07-22	PCB Assembly, Expansion Backplane, 8 I/O for Model 396559-01-8 (Trace Layout)
400044-01-3 (pages 2), rev. D	2003-07-10	Bill of Material ARM RTU Backplane, 6 IO Slot for Model 396560-01-6
400041-01-4, rev. D	2003-07-10	Bill of Material ARM RTU Backplane, 2 IO Slot for Model 396560-02-4
400045-01-0, rev. C	2003-07-10	Bill of Material ARM RTU Expansion Backplane, 2 IO Slot for Models 396559-03-4, 396559-02-6
400047-01-2, rev. C	2003-07-10	Bill of Material ARM RTU Expansion Backplane, 8 IO Slot for Model 396559-01-8
396559-00-0, rev. A	2003-07-23	Housing Assembly, I/O Expansion Module, C.W. Micro for Models 396559-03-4, 396559-02-6, 396559-01-8
396560-00-8, rev. A	2003-07-23	Housing Assembly, Base Module, C.W. Micro for Models 396560-01-6, 396560-02-4

Display Module (Model 396608-01-9, 396608-02-7)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400057-00-0, rev. 2	2004-03-22	CW EFM/RS-485 IF Display (Schematics)
400057-75-1, rev. B	2005-01-17	PCB Assembly Display Keypad (Trace Layout)
400057-01-8 (pages 2), rev. C	2004-03-31	Bill of Material CW EFM, Display
396608-00-0, rev. A	2004-03-01	Display Assembly

Communication Module (Model 396581-01-3)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400054-00-0 (pages 7), rev. 0	2003-06-10	ARM RTU COMM Board (Schematics)
400054-75-2, rev. A	2003-09-18	PCB Assembly CW Micro, Communications (Trace Layout)
400054-01-9 (pages 3), rev F	2004-06-30	Bill of Material CW Micro, Communications
721689-01-9 (pages 2), rev. B	2004-04-15	Display Assembly

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MIO Modules (Models 396630-02-2)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400062-00-3, (pages 3) rev. 1	2004-05-24	CW Micro MIO Board (Schematics)
400062-75-5, rev. A	2004-06-03	PCB Assembly, MIO (Trace Layout)
400064-75-8, rev. A	2004-06-03	PCB Assembly, AO Daughter Card (Trace Layout)
400062-01-1 (pages 4), rev. E	2004-07-16	Bill of Material CW Micro MIO (4 AI, 2HSC, 6 DI/DO)
400064-01-4 (pages 3), rev. C	2004-07-16	Bill of Material CW Micro MIO AO Daughter Board
721697-02-0, rev. A	2004-05-07	Mixed I/O with 2AO Daughter PCB, C.W. Micro

MIO with or without AO Board Modules (Models 396630-01-4)

<u>Number</u>	<u>Date</u>	<u>Description</u>
400062-00-3, (pages 3), rev. 1	2004-05-24	CW Micro MIO Board (Schematics)
400062-75-5, rev. A	2004-06-03	PCB Assembly, MIO (Trace Layout)
400062-01-1 (pages 4), rev. E	2004-07-16	Bill of Material CW Micro MIO (4 AI, 2HSC, 6 DI/DO)
721697-01-1, rev. A	2004-05-07	Mixed I/O Module Assembly, C.W. Micro

Labels and Installation Instruction

<u>Number</u>	<u>Date</u>	<u>Description</u>
721691-00-5, rev. F	-	Label, Control Wave Micro, CE & UL Certification
396809-01-4, rev. A	-	Label, Fuse
CI-Control/WaveMICRO	July, 2003	Instruction Manual (include Special Instructions for Class I Zone 2 Hazardous Locations in Appendix A)

[17] Special conditions for safe use:

The rated voltage for the apparatus or the part of the apparatus being considered shall not exceed 28 V dc.

The external connection cables for the Power Supply Modules (Models 396564-01-1, 396657-01-0, 396609-01-5, 396609-02-3) must be used with 100°C minimum rated cables.

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%. Where the means is to be provided externally the apparatus shall be marked with the symbol X and the information shall be given in the documentation.

These devices shall be mounted in a suitable enclosure rated to at least IP54 as defined in EN60529 and IEC60529 and used within their rated electrical and environmental ratings.

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These devices shall be powered from a SELV source as defined in Low Voltage Directive 73/23/EEC.

18] Essential Health and Safety Requirements

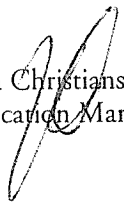
Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2006-03-13

Karina Christiansen
Certification Manager



Certificate: 06 ATEX 0511610X
Report: 05NK11610

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This certificate may only be reproduced in its
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