

# EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 09 ATEX 0909372X Rev. 0**
- [4] Equipment or Protective System: **Industrial Communications System (ICS) Page Party and SP2 Station Voice  
over Internet Protocol**
- [5] Manufacturer: **Gai-Tronics Corporation**
- [6] Address: **400 East Wyomissing Avenue, Mohnton, PA 19540 USA**
- [7] This equipment or protective system 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, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in confidential report no. **4787117613**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2012+A11:2013      EN 60079-1:2014      EN 60079-11:2012**
- [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 2 G    Ex db [ib] IIB + H2 T6 Gb**

**Certification Manager**  
Jan-Erik Storgaard

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:** 2009-07-06

**Re-issued:** 2016-02-25



**Notified Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

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## Schedule

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# EC-TYPE EXAMINATION CERTIFICATE No.

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### Description of Equipment or protective system

The Industrial Communications System (ICS) Page Party is an industrial communications system that can include two to hundreds of stations wired in parallel. The ICS Page Party system provides one-way page announcements over system speakers as well as full-duplex party line communication. It is comprised of a certified flameproof "d" enclosure that can include operators and a flameproof "d" cable gland threaded into the enclosure cover. The cable gland allows the passage of intrinsically safe wiring from the external handset through a barrier and to the internal electronics.

The SP2 station is a modular industrial multicast Voice over Internet Protocol (VoIP) communications system.

### **Nomenclature:**

$\frac{82}{I}$	$\frac{0}{II}$	$\frac{-1}{III}$	$\frac{1}{IV}$	$\frac{0}{V}$	$\frac{C}{VI}$	$\frac{0}{VII}$	$\frac{0}{VIII}$	$\frac{1}{IX}$
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#### I – Series Designation

82 – Industrial Communications System (ICS) Page Party  
92 – SP2 Station Voice over Internet Protocol

#### II – Party Lines

0 – Amplifier only  
1 – Single Party  
5 – Multi Party

#### III – Station Type

1 – AC Power Handset/Speaker Station  
3 – AC Power Speaker Amplifier  
5 – DC Power Handset/Speaker Station  
7 – DC Power Speaker Amplifier

#### IV – Control PCBA's

Any alphanumeric character specifying SMART, Standard or Ethernet controls

#### V – Handset Type

0 – No Handset

1 – 6' PVC Coil Cord  
2 – 15' PVC Coil Cord  
3 – 25' PVC Coil Cord  
4 – 6' Hytrel Coil Cord  
5 – 15' Hytrel Coil Cord  
6 – 25' Hytrel Coil Cord

#### VI – Approvals

E – ATEX Zone 1  
G – IECEx

#### VII – Material/Finish

Designated by any alphanumeric character specifying any material/finish approved as part of Killark Part No.

EXB-8106 N34.

#### VIII – Available Options

0 - None  
A – PCBA Tropicalization

#### IX – Entry Hole Pattern

Designated by any alphanumeric character to specify approved conduit and cable gland entry hole locations. All specified locations to be in compliance with Killark Part No. EXB-8106 N34 approved entry hole requirements and locations.

#### **Ambient temperature range**

-20 °C to +60 °C

#### **Temperature class**

T6

#### Electrical data

120/230 Vac, 50/60 Hz, 0.5 A max; 24 Vdc ± 20%, 2.5 A max

#### Routine tests

Routine tests according to EN 60079-1 cl. 16.1.1 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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### Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EC-Type Examination Certificate.

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Specific conditions of use:

- Flameproof joints are not to be repaired in the field. If the flame path is damaged, the enclosure is to be removed from service and replaced with a new properly working enclosure.
- The screws used for the body to cover must have a yield stress equal to or greater than 1100 MPa.

[18]

Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The ICS Page Party and SP2 Station Voice over Internet Protocol have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.

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.

# TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] Type Examination Certificate Number: **DEMKO 10 ATEX 101664X Rev. 1**

[4] Product: **Modular Industrial Communication – Page/Multi-Party Station**

[5] Manufacturer: **Gai-Tronics Corporation**

[6] Address: **400 East Wyomissing Avenue, Mohnton, PA 19540 USA**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4787622496**

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

**EN 60079-0:2012+A11:2013**

**EN 60079-11:2012  
EN 60079-31:2014**

**EN 60079-15:2010**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following:

 **II 3 G Ex ic nA IIC T4 Gc**

 **II 3 D Ex ic tb IIIC T135°C Dc IP66**

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product 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 product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product 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:** 2011-02-04

**Re-issued:** 2017-03-13



**Certification Body** UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

## Schedule

### TYPE EXAMINATION CERTIFICATE No.

DEMKO 10 ATEX 101664X Rev. 1

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[15] Description of Product:

Modular Industrial Communication – Page/Multi-Party Station

The apparatus is a permanently installed communication system designed for use in Hazardous Locations. The device is Ex ic nA IIC T4 or Ex ic tb IIIC T135°C with ambient temperature range of -30°C to +70°C. The apparatus is powered by a power supply which can accept either a 120/240Vac power or a 24Vdc power.

Within the apparatus are the following printed wiring boards and components:

1. A termination board, PCB identified as 69649-xxx.
2. Universal power supply consisting of one PCB board, 69861-xxx.
3. A termination board with RTU and CV speaker, 69652-001
4. An optional ICS Smart board.
5. An optional ICS VLC Board.
6. A Page Party PCB (Main Board), 69648-xxx
7. A Fiber Optic Board, 69653-xxx (optional)
8. A telephone handset
9. An auxiliary Jack connection.
10. An All Call or Alternative Page switch (optional)
11. Party Selector switch (optional)

The model nomenclature is as follows:

82 followed by 0, 1 or 5 indicating number of party lines; followed by -1, -2, -3, -5, -6, or -7 indicating type of amplifier station and voltage source; followed by 1, 2, 3, 4, 5, 6, 7, 8, A, B, C or D indicating various electronic features; followed by 0, 1, 2, 3, 4, 5, or 6 indicating various mechanical options such as cord type and length not affecting safety; followed by F indicating ATEX certified; followed by an alpha numeric digit which signifies the color of the enclosure; followed by 0 or A indicating various mechanical options such as conformal coating of PCBs and enclosure hardware not affecting safety; followed by any alphanumeric character indicating various mechanical options such as enclosure entries or gland plate not affecting safety.

And

92 followed by 0, 1 or 5 indicating number of party lines ; followed by -1, -2, -3, -4, -5, -6, -7, -8, -A, -B, or -C indicating power and station options ; followed by 1, 2, 3, 4, 5, 6, A, B, C, D, E, or F indicating operation wired Ethernet or fiber optic, followed by an alphanumeric character for options not affecting safety (handsets) followed by F or H indicating assessment to Zone 2 certification , followed by any three alphanumeric characters for options not affecting safety.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is not covered in this certificate.

Temperature range

The ambient temperature range is -30 °C to +70 °C.

Electrical data

Input power either 24Vdc  $\pm$  20%, 2.5A max or 120/230Vac, 50/60 Hz, 0.5A max.

Routine tests:

None

[16] Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this Type Examination Certificate.

[17] Special Conditions of Use:

Capacitance values of 140pF to 580pF were measured on the external metallic unearthed components of this equipment. As such, special care must be taken in installation location and environment to address this hazard.

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Modular Industrial Communication – Page/Multi-Party Station has in addition passed the tests for Ingress Protection to IP 20 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

The apparatus main enclosure is protected in Zone 22 by method tb. The apparatus handset is protected in Zone 22 by method ic.

# EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

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

[3]

EC-Type Examination Certificate Number: **DEMKO 12 ATEX 1116051 Rev. 3**

[4]

Equipment or Protective System: **Industrial Intercom Product**

[5]

Manufacturer: **Gai-Tronics Corporation**

[6]

Address: **400 East Wyomissing Avenue, Mohnton, PA 19540 USA**

[7]

This equipment or protective system 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, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **1824914.350098**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2009**  
**EN 60079-11:2012**

**EN 60079-1:2007**  
**EN 60079-31:2009**

**EN 60079-7:2007**

[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:

**For Model 400-003/004 Enclosure:**



**II 2 G**

**Ex d IIB T6 Gb**



**II 2 D**

**Ex tb IIIC T85°C Db IP66**

**For Model 10438-101 Barrier:**



**II 2 G**

**Ex e [ia] IIB+H<sub>2</sub> T6 Gb**

**For Model 12801-001 Microphone:**



**II 2 G**

**Ex ia IIB+H<sub>2</sub> T6 Gb**

### Certification Manager

Jan-Erik Storgaard

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:** 2012-09-10

**Re-issued:** 2014-06-25

### Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
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## Schedule

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# EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 12 ATEX 1116051X Rev. 3

Report: 1824914.350098

[15]

### Description of Equipment or protective system

The Industrial Intercom system provides a basic push-to-talk system with volume control, and is comprised of two enclosures and a microphone. The enclosures consist of one flameproof/dust-protected type, and one increased safety type. The flameproof/dust-protected enclosure is identified as the Model 400-003/004 Zone 1 RigCom Station. The increased safety enclosure contains an intrinsic safety barrier, which connects to the microphone, Model No. 12801-001. The increased safety enclosure and microphone together are identified as the Model 10438-101 Intrinsically Safe Microphone Barrier Kit. The increased safety enclosure has additionally been evaluated for IP66 rating.

### Temperature range

Equipment	Ambient temperature range	Temperature Class
Model 400-003/004 Zone 1 RigCom Station	-40°C to +60°C	T6
Model 10438-101 Microphone Barrier	-20°C to +60°C	T6
Model 12801-001 Microphone	-20°C to +60°C	T6

### Electrical data

Input: Model 400-003: 120VAC or 12VDC  
Model 400-004: 230VAC or 12VDC

Intrinsically safe specifications for the Microphone Barrier Kit:  
U<sub>m</sub> : 250 V

### Installation instructions

For "d" and "tb" enclosures: All cable entry devices and blanking elements shall be certified in type of explosion protection flameproof enclosure "d", dust-protected "tb" and IP66, suitable for the conditions of use and correctly installed.

For "e" enclosures: All cable entry devices and blanking elements shall be certified in type of explosion protection increased safety type 'e' and IP66, suitable for the conditions of use and correctly installed

Unused apertures shall be closed with suitable blanking elements ATEX/ IECEx certified as appropriate.

Use field wiring suitable for both minimum and maximum ambient temperature.

### Mounting instructions

Refer to "Instructions".

### Routine tests

Routine tests according to EN 60079-1 cl. 15 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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### Report No.

Project Report No.: 1824914.350098 (Hazardous Location Testing)

### Documents:

Description:	Drawing No.:	Rev. Level:	Date:
Rigcom Microphone Safety Barrier PCB Assembly No. 69544-001 Schematic	73180	A	2006-01-20
No. 69544-001 PCBA, Microphone I.S. Barrier Assembly Drawing	73181	A	2006-01-20
No. 69544-001 Product ID Fabrication Detail (Label)	25460-169	A	2006-01-19
No. 12801-001 Auxiliary Microphone Kit Outline & Connection Diagram	73241	A	2006-01-25
No. 10438-101 ATEX/IEC Microphone I.S. Barrier Assembly Drawing	74273	A	2012-09-05
No. 10438-101 ATEX/IEC Microphone I.S. Barrier Kit Outline	74272	B	2011-12-13
No. 10438-101 ATEX/IEC MIC I.S. Barrier Kit Parts List	-	-	2011-10-24
LBL, Product ID 10438-101 Fabrication Detail	25460-386	A	2012-09-05
LBL, ATEX Gooseneck Microphone Fabrication Detail	25461-127	A	2012-09-06
Microphone Barrier Kit Model 10438-101 Installation Instruction	42003-237A	-	2011-12
GRP Enclosure Detail	14262-002	B	2011-12-13
RigCom Nameplate	25426-012	A	2012-09-05
RigCom Nameplate (230VAC Option)	25426-019	A	2014-02-14
Increased Safety Enclosure Nameplate	25460-386	A	2012-09-05
Rigcom PCB Assembly	74881	A	2014-02-12

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### EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 12 ATEX 1116051X Rev. 3

Report: 1824914.350098

RigCom General Assembly	74455	A	2012-08-30
Operator Assembly	B22894- B22895	A1	2011-04-01
Polymer ZPL6 Enclosure Drawing	C25401	E	2007-02-14
Model 400-003/004 RigCom Zone 1 Station Installation Instructions	42004-460B	-	2014-02

[17]

Specific conditions of use:

None.

[18]

Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The Model 400-003/004 Zone 1 RigCom Station and Model 10438-101 barrier enclosure have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2001.

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".

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.

