



Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Corporation Engineering Department 400 East Wyomissing Ave Mohnton, PA, 19540 USA	4871-01 TELECOMMUNICATION EQUIPMENT-	102864-0-000

Refer to Class Description for program details

- Telephone Line Desk Top Console "Command Plus". Powered by Class 2 Power Adapter (Certified type (LR 56927) Level 3 Model No PSA-124, input 110-240V ac, 1.5A, 60/50Hz, output 12V, 4.2A).

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Class Description

CLASS NUMBER: 4871-01 **DESCRIPTION:** TELECOMMUNICATION EQUIPMENT-

February 13, 1991(Replaces:December 17, 1990)

COVERAGE:

This classification covers power-line connected equipment used in accordance with the Canadian Electrical Code, Part 1 and intended to be electrically connected to a telecommunication network which has a normal operating voltage to ground of less than 150V rms. Example devices are individual service loopstart lines, loop start, ground start, reverse-battery and tie trunks, channels of the public switched network, teletypewriter exchange service networks, PABX telephone systems, PBX systems, digital and analogue PABX and PBX systems, key telephone systems, communication interconnecting systems, acoustically coupled telephone systems, telephone set equipped with CRTs, hands free loudspeaking devices, signal processing systems, and similar devices and systems.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 0.4	Bonding and Grounding of Electrical Equipment (Protective Grounding)
CSA Standard C22.2 No 225-M	Telecommunication Equipment

The Certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC).

MARKING:

- submittor's identification;
- model designation or equivalent;
- complete electrical rating;
- date code;
- additional markings as may be required;
- CSA Monogram;

In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.



Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Corporation Engineering Department 400 East Wyomissing Ave Mohnton, PA, 19540 USA	4812-06 SIGNAL APPLIANCES- Miscellaneous	074644
Refer to Class Description for program details		

- Strobe signal lights, indoor or outdoor, Models 530, 120V, 50/60Hz, 0.32A; 531, 24V dc, 2.0A.
- Strobe signal lights, indoor or outdoor, contacts 120V ac, 2.0A; Models 530A, 120V, 50/60Hz, 0.32A; Model 531A, 24V dc, 2.0A.
- Strobe signal lights, indoor or outdoor, contacts 120V ac, 2.0A; 120V, 50/60Hz, Models 530, 530A, 0.32A; 530B, 0.69A; 24V dc, Models 531, 531A, 2.0A; 531B, 2.6A.

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Class Description

CLASS NUMBER: 4812-06 **DESCRIPTION:** SIGNAL APPLIANCES-Miscellaneous

February 13, 1991(Replaces:December 12, 1990)

COVERAGE:

Devices and systems such as burglar alarms, electrical fire alarms, etc. to be used with power supply voltages up to 600V ac, permanently or cord connected, intended for use in ordinary (non-hazardous) locations.

This category does not include the performance of equipment.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 205	Signal Equipment

The Certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC).

MARKING:

- submitter's identification;
- model designation or equivalent;
- complete electrical rating;
- date code;
- additional markings as may be required;
- CSA Monogram;

In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

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Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Corporation Engineering Department 400 East Wyomissing Ave Mohnton, PA, 19540 USA	4812-06 SIGNAL APPLIANCES- Miscellaneous Refer to Class Description for program details	702722

- Strobe signal lights, indoor or outdoor, contacts 120V ac 2.0A; 120V, 50/60 Hz, Models 530, 530A, 0.32A, 530B, 0.69A; 24V dc; Model 530 FB, 60 Hz, 0.69A; Models 531, 531A, 2.0A; 531B, 2.6A.

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Class Description

CLASS NUMBER: 4812-06 **DESCRIPTION:** SIGNAL APPLIANCES-Miscellaneous

February 13, 1991(Replaces:December 12, 1990)

COVERAGE:

Devices and systems such as burglar alarms, electrical fire alarms, etc. to be used with power supply voltages up to 600V ac, permanently or cord connected, intended for use in ordinary (non-hazardous) locations.

This category does not include the performance of equipment.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 205	Signal Equipment

The Certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC).

MARKING:

- submittor's identification;
- model designation or equivalent;
- complete electrical rating;
- date code;
- additional markings as may be required;
- CSA Monogram;

In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

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Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Corporation Engineering Department 400 East Wyomissing Ave Mohnton, PA, 19540 USA	4818-02 SIGNAL APPLIANCES-Audible - For Hazardous Locations Refer to Class Description for program details	042465-0-000

Class I, Groups A, B, C and D; Class II, Group G (Including Coal Dust); Class III; Enclosure 3:

- Communication Systems Model 261 (Indoor) and Model 271 (outdoor, Encl 3) rated 110/220V ac, 47-63Hz, 0.5A, 24V dc, 0.25A. Consisting of an Isolation Barrier Unit Model 263 which provides Intrinsically Safe connections for outdoor Intrinsically Safe telephone Model 272 or 272KS (Encl 3) or Indoor Intrinsically Safe telephone Model 262 when connected in accordance with Gai-Tronics Dwg. No. D71494.

Class I, Groups C and D, Class II, Groups E, F and G, Class III:

- Page/Party System Series consisting of a Handset/Speaker Amplifier unit Model 7595-005 rated 120V ac, 60Hz, 0.4A and a subset unit Model 753-005 or 7535-005 that includes a safety barrier device Part No 69012-002 having output terminals which provide intrinsically safe circuits when connected to handset Part No 10108-004, -005 and -006 in accordance with GAI-TRONICS Dwg. No C70400.

Series 780/7805 Page/Party Communicating Systems, comprising of the following equipment:

- Handset/Speaker Amplifier Stations, Models 780-001 and 7805-001, rated 120V, 50/60Hz, 0.46A; Models 780-002 and 7805-002, rated 24V dc, 1.2A. Each unit includes a safety barrier unit (P/N 69012-002) which provides intrinsically safe terminals for connection of the handset (P/N 10108-007, -008 or -009).
- Speaker Amplifier Stations, (optional separate unit), Model 670-001, rated 120V, 50/60Hz, 0.46A; Model 670-002, rated 24V dc, 1.2A.

Class I, Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups E, F, G; Class III, Div. 2:

- Page/Party Voice Communication System, comprising of the following equipment: Handset/speaker amplifier, Models 701-201, 701-202 and 701-302, rated 120V, 50/60Hz, 0.42A; with enclosure 733-001, 733-001A, 7335-001, (ENCL. 3 and 5); speaker amplifier, Model 651-001, rated 120V, 50/60Hz, 0.42 with enclosure 658-002 (ENCL. 3 and 5); speaker horn driver, Model 13312-101 (ENCL. 3 and 5), rated 30W at 16 ohm line; balance assembly, Model 305-001.

Class I, Div. 2, Groups A, B, C, D:

- Page/Party Voice Communication System, comprising of the following equipment: Handset/speaker amplifier, Models 701-201 and 701-202, rated 120V, 50/60Hz, 0.42A; with

enclosure 702A, 702AA or 703A; speaker amplifier, Model 651-001, rated 120V, 50/60Hz, 0.42A with enclosure 652-002; remote handset/speaker amplifier, Model 723-001, rated 120V, 50/60Hz, 0.42A with enclosure 7245-002; subset, Models 711-, 7115-, 716-, 7165-, 721- and 7215-002 with enclosure 7245-002 (subsets are for use with 723-001 remote handset/speaker amplifier); priority tone generator, Model 10358-002, rated 120V, 50/60Hz, 0.18A (or 24V dc, 0.5A) with enclosure 10359-002.

Note: External load of priority tone generator are to be limited to 200mA at 24V dc for any one circuit or 300mA max total.

Class I, Div 2 Groups A, B, C and D; Class II Div 2 Groups F and G; Class III:

- Speaker amplifier, Model 751-001, rated 120V, 50/60Hz, 0.46A; with enclosure 733-001, 733-001A, 758-001 (enclosure 3 and 5) 758-001A (Enclosure 3 and 5) or 702A*, 702AA*.
 - Page/Party Equipment, 9000 Series, Interconnected per Installation Manual(s) Pub. No (as applicable) 42004-127A, -128, -129, -130A, -131, -132. 1.
1. Single Line Outdoor Wall Station, CSA Encl 3;
 - Model 9081-001, 120V, 50/60Hz, 0.5A
 - Model 9081-002, 240V, 50/60Hz, 0.3A
 - Model 9081-003, 24V dc, 1.5A. 2.
 2. Five Line Outdoor Wall Station; CSA Encl 3;
 - Model 9085-001, 120V, 50/60Hz, 0.5A
 - Model 9085-002, 240V, 50/60Hz, 0.3A
 - Model 9085-003, 24V dc, 1.5A 3.
 3. Single Line Indoor Wall Station;
 - Model 9001-001, 120V, 50/60Hz, 0.5A
 - Model 9001002, 240V, 50/60Hz, 0.3A
 - Model 9001-003, 24V, 1.5A

Note: The above models provide non-incendive field circuits for connection to optional headset Part No 10401-101 located in Class I Div 2 Groups A, B, C and D
 4. Five Line Indoor Wall Station;
 - Model 9005-001, 120V, 50/60Hz, 0.5A
 - Model 9005-002, 240V, 50/60Hz, 0.3A
 - Model 9005-003, 24V dc, 1.5A

Note: The above models provide non-incendive field circuits for connection to optional headset Part No 10401-101 located in Class I Div 2 Groups A, B, C and D.
 5. Indoor/Outdoor Speaker Amplifier CSA Encl. 3;
 - Model 9000-001, 120V, 50/60Hz, 0.5A
 - Model 9000-002, 240V, 50/60Hz, 0.3A
 - Model 9000-003, 24V dc, 1.5A 6. Indoor/Outdoor Junction Box, Model 9974, CSA Encl. 3.
 - Priority Tone/Speech Generator, Model TS958, rated (power input) 90-132V, 50/60Hz, 0.4A (or 18-26V dc, 0.4A).

Notes:

1. External loads of priority tone generator (auxiliary outputs 18 to 26V dc) are to be limited to 100mA for any one circuit (with the maximum total of 900mA).
2. *Speaker amplifier mounted in enclosure marked with an asterisk is suitable for Class I, Div. 2,

Groups A, B, C and D locations only.

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Group G and Coal Dust; ClassIII; Encl 3:

- Industrial Telephone Model 350 (Indoor) and Model 351 (Outdoor) connected in accordance with Gai-Tronics Drawing No 71597.

Class I, Div. 2, Groups A, B, C and D.

- Subsets, Models 726-101 and 7265-101 for connection to amplifier Part No 723-001 via amplifier enclosure Part No 7245-002. Interconnecting cable assembly, Part No 61504-043 must be used.

Class I, Groups A, B, C and D:

- Handset station, Models 10101 and 10102, 24V dc, 10mA, Temperature Code T4A. Intrinsically safe where connected through Certified 28V/300 ohm (max volt/min resistance) Zener barrier in accordance with manufacturer's installation documents ISW-1000-01 and ISW-1000-02.

Class I, Div. 2, Groups A, B, C and D:

- Handset station, Models 10101 and 10102, 24V dc, 10mA; installed in accordance with manufacturer's installation document ISW-1000-03.

Class I, Groups C, D; Class II, Groups E, F, G:

Call/talk stations, for voice communication, comprising:

- 5-party line handset/speaker-amp stations, Models 5401A-CSA and 5401A-24-CSA.
- Single-party line handset/speaker-amp stations, Models 5301A-CSA and -5301A-24-CSA.
- 5-party line handset stations, Models 5201A-CSA and 5201A-24-CSA.
- Single-party line handset stations, Models 5101A-CSA and 5101A-24-CSA.
- Speaker-amp stations, Models 5501-CSA and 5501A-24-CSA.

Notes:

1. Each station (except speaker-amp station) is provided with handset MI3974 or optional headset MI3009.
2. Handset and headset are intrinsically safe when used with Certified stations and installed in accordance with Femco Installation Instruction 3-9514.
3. Above 5000 series stations are rated 105-130V, 50/60Hz, 0.32A nominal; or stations with Suffix "24" designation are rated 24V dc, 1A nominal.

Class I, Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups E, F, G:

Call/talk stations, for voice communication, comprising:

- 5-party line handset/speaker-amp stations, Models 5401A-CSA and 5401A-24-CSA.
- Single-party line handset/speaker-amp stations, Models 5301A-CSA and 5301A-24-CSA.
- 5-party line handset stations, Models 5201A-CSA and 5201A-24-CSA.
- Single-party line handset stations, Models 5101A-CSA and 5101A-24-CSA.

- Speaker-amp stations, Models 5501-CSA and 5501A-24-CSA.

Notes:

1. Each station (except speaker-amp station) is provided with handset MI3974 or optional handset MI3009.
2. Above 5000 series stations are rated 105-130V, 50/60Hz, 0.32A nominal; or stations with Suffix "24" designation are rated 24V dc, 1A nominal.

Class I, Div 2, Groups A, B, C, D; Class II, Div 2, Groups F and G; Class III, Div 2:

- Page/Party voice communication system, comprised of the following equipment: Smart handset/speaker amplifier station, Models 701-804 and 701-802, rated 120V, 0.46 A, 50/60Hz, with enclosure 733-001, 7335-001, 7335-005, 7325-101 and 7325-105; speaker amplifier, Model 751-801, rated 120V, 0.46 A, 50/60Hz, with enclosure 733-001 or 758-001(Encl. Type 4X).

Class I, Div 2, Groups A, B, C, D:

- Page/Party voice communication system, comprised of the following equipment: Smart handset/speaker amplifier station, Models 701-804 and 701-802, rated 120V, 0.46 A, 50/60Hz; with enclosure 702A, 703A and 703-005; speaker amplifier, Model 751-801, rated 120V, 0.46 A, 50/60Hz, with enclosure 702A.

Class I, Div 2, Groups A, B, C, D:

- Page/Party voice communication system, comprised of the following equipment:
 1. Smartseries Remote Handset/Speaker Amplifier, Model 723-801, Model 723-001 rated 120V, 0.46A, 50/60Hz; Temperature Code T3C, max ambient 70 degree C.
 2. with 7245-004 and 7245-002 enclosure;
 3. Model 716-102 Flush Mount Single Party Remote Subset, Model 7165-102 Flush Mount 5 Party Remote Subset, Model 711-102 Desk Edge Single Party Remote Subset, Model 7115-102 Desk Edge 5 Remote Party Subset, Model 726-101 Desk top Single Party Remote Smart Subset and Model 7265-101 Desk top Five Party Remote Subset.

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Class Description

CLASS NUMBER: 4818-02 **DESCRIPTION:** SIGNAL APPLIANCES-Audible - For Hazardous Locations

January 18, 1991(Replaces:March 6, 1987)

COVERAGE:

Audible signalling devices such as horns, bells, buzzers, etc. for voltages up to 600V ac, permanently connected, for industrial use.

This category does not include the performance of the devices.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 0.4	Bonding and Grounding of Electrical Equipment (Protective Grounding)
CSA Standard C22.2 No 0.5	Threaded Conduit Entries
CSA Standard C22.2 No 25	Enclosures for Use in Class II, Groups, E, F, and G Hazardous Locations
CSA Standard C22.2 No 30	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Standard C22.2 No 205	Signal Equipment

The certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC), for use in hazardous locations.

MARKING:

- submittor's identification;
- model designation or equivalent;
- complete electrical rating;
- applicable hazardous locations Class, Group and sometimes Division. Equipment not marked to indicate a Division, or marked "Division 1" or "Div 1" is certified for both Divisions 1 and 2 locations. Equipment marked "Division 2" or "Div 2" is certified only for Division 2 locations;
- date code or equivalent;
- cautions, warnings and additional markings as may be required;
- CSA Monogram.

In addition, equipment intended for display, sale or use in the USA, is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

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Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Corporation Engineering Department 400 East Wyomissing Ave Mohnton, PA, 19540 USA	4818-82 SIGNAL APPLIANCES-Audible - For Hazardous Locations - Certified to US Standards Refer to Class Description for program details	042465-0-000

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Group G and coal dust; Class III; Encl 3:

- Industrial Telephone Model 350 (Indoor) and Model 351 (outdoor). Connect in accordance with Gai-Tronics Drawing No 71597.

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Group G (Including Coal Dust); Class III.

- Industrial Telephone Model 226D.

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Class Description

CLASS NUMBER: 4818-82 **DESCRIPTION:** SIGNAL APPLIANCES-Audible - For Hazardous Locations - Certified to US Standards

September 22, 1995(Replaces:February 25, 1993)

COVERAGE:

Audible signalling devices such as horns, bells, buzzers, etc. for voltages up to 600V ac, permanently connected, for industrial use.

This category does not include the performance of the devices.

REQUIREMENTS:

UL Standard 464	Audible Signal Appliances
UL Standard 1203	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment For Use in Hazardous (Classified) Locations

MARKING:

- submittor's identification;
- model designation or equivalent;
- complete electrical rating;
- applicable hazardous locations Class, Group and sometimes Division. Equipment not marked to indicate a Division, or marked "Division 1" or "Div 1" is certified for both Divisions 1 and 2 locations. Equipment marked "Division 2" or "Div 2" is certified only for Division 2 locations;
- date code;
- cautions, warnings and additional markings as may be required by the applicable Standards;
- CSA Monogram and "NRTL".

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Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Limited Brunel Dr Stretton Business Park Burton Upon Trent Staffordshire, , DE13 0BZ United Kingdom	2226-01 AUDIO AND VIDEO EQUIPMENT-Commercial Audio Equipment	113838-0-000
Refer to Class Description for program details		

- FM Clock Radio with internal fluorescent lamp, Model "Cabin Entertainment Unit", rated 120V, 60Hz, 80W.
- FM Clock Radio without internal fluorescent lamp, Model "Office Entertainment Unit", rated 120V, 60Hz, 80W.
- Entertainment System, Audio Rack, rated 120V, 60Hz, 3A, permanently connected, grounded.
- General Platform Alarm System, rated 120V, 60Hz, 10A, 48V dc, 160A, permanently connected, grounded.
- Intercom Line Monitor, rated 120V, 60Hz, 3A, cord connected, grounded.

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Class Description

CLASS NUMBER: 2226-01 **DESCRIPTION:** AUDIO AND VIDEO EQUIPMENT-
Commercial Audio Equipment

November 25, 1993(Replaces:January 24, 1991)

COVERAGE:

Equipment intended generally for commercial use such as studio audio equipment, musical instrument amplifiers and accessories, public address amplifiers, intercoms, school audio equipment and powered speakers.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 0.4	Bonding and Grounding of Electrical Equipment
CSA Standard C22.2 No. 1-M	Radio, Television and Electronic Apparatus

The Certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC).

MARKING:

- submitter's identification;
- model designation or equivalent;
- complete electrical rating;
- date code;
- additional markings as may be required;
- CSA Monogram. Alternatively, Label Stock 8-2407-195 may be used.

In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

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Certification Record

CUSTOMER	CLASS	FILE
GAI-Tronics Limited Brunel Dr Stretton Business Park Burton Upon Trent Staffordshire, , DE13 0BZ United Kingdom	2226-02 AUDIO AND VIDEO EQUIPMENT-Commercial Video Equipment Refer to Class Description for program details	113838-0-000

- Entertainment System, Video Rack, rated 120V, 60Hz, 3A, permanently connected, grounded.

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Class Description

CLASS NUMBER: 2226-02 **DESCRIPTION:** AUDIO AND VIDEO EQUIPMENT-
Commercial Video Equipment

November 30, 1998(Replaces:November 25, 1993)

COVERAGE:

Video equipment for commercial use, including television monitors, cameras, video tape equipment, video disc players, satellite receivers, hospital television, school television, video signal processors, master antenna amplifiers, CATV amplifiers and studio video equipment.

REQUIREMENTS:

CSA Standard C22.2 No 0	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No 0.4	Bonding and Grounding of Electrical Equipment
CSA Standard C22.2 No. 1	Audio, Video and Similar Electronic Equipment

The Certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA National Electrical Code (NEC).

MARKING:

- submitter's identification;
- model designation or equivalent;
- complete electrical rating;
- date code;
- additional markings as may be required;
- CSA Monogram. Alternatively, Label Stock 8-2407-195 may be used.

In addition, equipment intended for display, sale or use in the USA is required to include other information such as warning statements, installation instructions, etc., as may be specified in the NEC.

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Certificate of Compliance

Certificate: 1024846 (LR 42465-62)

Master Contract: 159658

Project: 1496485

Date Issued: 2003/11/21

Issued to: GAI-Tronics Corporation

400 East Wyomissing Ave
Mohnton, PA 19540
USA

Attention: Mr. Anthony F. Bianca


The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by:


Joe da Silva, C.E.T.

Authorized by:


Nick Alfano, Operations
Manager

PRODUCTS

CLASS 4818 02 - SIGNAL APPLIANCES - Audible - For Hazardous Locations

CLASS 4818 82 - SIGNAL APPLIANCES - Audible - For Hazardous Locations - Certified to US Standards

Class I, Div 2, Groups A, B, C, D

Page/Party voice communication system, comprised of the following equipment:

1/ Smartseries Remote Handset/Speaker Amplifier, Model 723-801, Model 723-001 rated 120V,0.46A, 50/60Hz and model 723-003 rated 24Vdc, 1.2A ; Temperature Code T3C. Maximum ambient 70° C.

2/ with 7245-004, 7245-003 and 7245-002 enclosure;

3/ Model 716-102 Flush Mount Single Party Remote Subset, Model 7165-102 Flush Mount 5 party Remote Subset, Model 711-102 Desk Edge Single Party Remote Subset, Model 7115-102 Desk Edge 5 Remote Party

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



Certificate: 1024846 (LR 42465-62)

Master Contract: 159658

Project: 1496485

Date Issued: 2003/11/21

Subset, Model 726-101 Desk top Single Party Remote Smart Subset and Model 7265-101 Desk top Five Party Remote Subset.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.142-M1987 - Process Control Equipment (For Guidance only)

CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

FMRC 3600 (1998) - Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements

FMRC 3611 (1986) - Electrical Equipment for Use in Class I, Division 2; Class II, Division 2; and Class III, Division 1 and 2 Hazardous Locations

FMRC 3810 (1989; Supp. #1, 1995) - Electrical and Electronic Test, Measuring, and Process Control Equipment

MARKINGS

CSA C/US monogram

Submitter Identification

Model No.

Serial Number, Date Code or Month and Year of Manufacture

Electrical Rating

Hazardous Location Designation

Temperature Code

Maximum Ambient Temperature

WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 (Appears in instruction manual).

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.



Supplement to Certificate of Compliance

Certificate: 1024846

Master Contract: 159658

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1496485	2003/11/21	To cover evaluation to U.S. Requirements.
History		
1024846	Jan 12/2000	Update to include higher maximum ambient. (Originally issued as 2500003511)
-62	Jul 26/99	Original Certification.

Certificate of Compliance

Certificate: 1361537 (LR 42465)

Master Contract: 159658

Project: 1361537

Date Issued: September 24, 2002

Issued to: **GAI-Tronics Corporation**
400E. Wyomissing Ave.
Mohnton, PA 19540
USA

Attention: Mr. Anthony F. Bianca

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicators 'C' and 'US'*



Issued by: Joe da Silva, C.E.T.

Authorized by: Nick Alfano
Operations Manager

PRODUCTS

CLASS 4818 02 - SIGNAL APPLIANCES - Audible - For Hazardous Locations

Class I, Div 2, Groups A, B, C, D:

Page/Party voice communication system, comprised of the following equipment:

Part A

Smart handset/speaker amplifier station, Model 701-902, rated 120V, 0.46 , 50/60Hz, with enclosure 7335-001 or 7335-005.

Part B

Smart speaker amplifier station, Model 751-901, rated 120V, 0.46 , 50/60Hz, with enclosure 733-001 or 7335-005.

Part C

Smart series remote handset/speaker amplifier station, Model 723-801, rated 120V, 0.46 , 50/60Hz, with desk top five party remote subset model A02027 and enclosure 7245-004.

Certificate: 1361537
Project: 1361537

Master Contract: 159658
Date: September 24, 2002

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 94-M91	-	Special Purpose Enclosures
CSA Std C22.2 No.142-M1987	-	Process Control Equipment
CAN/CSA-C22.2 No.157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
UL Std No. 1459	-	Telephone Equipment
UL Std No. 508	-	Industrial Control Equipment
UL Std No. 1604	-	Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations
UL Std No. 50 (Editions 1 to 9)	-	Electrical Cabinets and Boxes
UL Std No. 50 (Edition 10)	-	Enclosures for Electrical Equipment

MARKINGS

- a) Handset/speaker amplifier (701-902, 751-901 and 723-801) and Remote subset (A02027):

For above equipment, the following data appears as part of the markings: submittor's name and/or trademark, model designation, electrical rating, hazardous location designation, identification of applicable enclosure, the CSA Monogram. Warning regarding substitution of components may impair suitability for use in Div. 2 as well as a Warning regarding to not disconnect equipment in hazardous locations unless power has switched off or the area is known to be non-hazardous.

- (b) Enclosures (7335-001, 7335-005, 733-001 and 7245-004):

For above enclosures, the following data appears as part of the markings: submittor's name and/or trademark, model designation, intended (designed) usage.

Note: This caution statement may be on a separate label or tag, plainly visible during installation.

Enclosures (7335-001, 7335-005 and 733-001)

In addition to the marking requirements of Item (b) as shown in the "Certificate of Compliance", the following statement appears on the unit: "CAUTION: NON-METALLIC ENCLOSURE DOES NOT PROVIDE GROUNDING BETWEEN CONDUIT CONNECTIONS. USE GROUNDING TYPE BUSHINGS AND JUMPER WIRES".

Note: This caution statement may be on a separate label or tag, plainly visible during installation.



Supplement to Certificate of Compliance

Certificate: 1361537 (LR42465)

Master Contract: 159658

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
1361537	Sept. 24/02	Original Certification.



Descriptive and Test Report

MASTER CONTRACT: 159658

REPORT: 1361537

PROJECT: 1361537

Edition 1: September 24, 2002; Project 1361537 - Toronto
Issued by Joe da Silva, C.E.T.

Contents: Certificate of Compliance - Page 1 to 2
Supplement to Certificate of Compliance – Page 1
Description and Tests – Pages 1 to 5

PRODUCTS

Part A

Smart handset/speaker amplifier station, Model 701-902, rated 120V, 0.46 , 50/60Hz, with enclosure 7335-001 or 7335-005.

Part B

Smart speaker amplifier station, Model 751-901, rated 120V, 0.46 , 50/60Hz, with enclosure 733-001 or 7335-005.

Part C

Smart series remote handset/speaker amplifier station, Model 723-801, rated 120V, 0.46 , 50/60Hz, with desk top five party remote subset model A02027 and enclosure 7245-004.

The test report shall not be reproduced, except in full, without the approval of CSA International.

178 Rexdale Boulevard, Toronto, ON, Canada M9W 1R3

Telephone: 416.747.4000 1.800.463.6727 Fax: 416.747.4149 www.csa-international.org

APPLICABLE REQUIREMENTS

- | | | | |
|-------------------|--------------|---|--|
| CAN/CSA-C22.2 | No. 94-M91 | - | Special Purpose Enclosures |
| CSA Std C22.2 | No.142-M1987 | - | Process Control Equipment |
| CAN/CSA-C22.2 | No.157-92 | - | Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations |
| UL Std No. | 1459 | - | Telephone Equipment |
| UL Std No. | 508 | - | Industrial Control Equipment |
| UL Std No. | 1604 | - | Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations |
| UL Std No. | 50 | - | Electrical Cabinets and Boxes |
| (Editions 1 to 9) | | | |
| UL Std No. | 50 | - | Enclosures for Electrical Equipment |
| (Edition 10) | | | |

MARKINGS

Markings as indicated in C.O.C. must appear on CSA accepted Label. Refer to reports mentioned in description section of this report for further details and drawings of markings.

ALTERATIONS

Markings as indicated above.

FACTORY TESTS

1. The equipment at the conclusion of manufacture and before shipment, shall withstand for one min, without breakdown, the application of the following ac potentials:
 - (a) 1000V for equipment rated 250V or less, and 1000V plus twice rated voltage for equipment rated at more than 250V between low voltage live parts and the enclosure if such circuits leave or enter the enclosure;
 - (b) 1000V for equipment rated 250V or less, and 1000V plus twice rated voltage for equipment rated at more than 250V between live parts of low and extra-low voltage circuits and different low voltage circuits if such circuits leave or enter the enclosure;
 - (c) 500V between extra low potential live parts and exposed non-current-carrying metal parts or ground terminal, if such circuits leave or enter the enclosure.
2. A transformer, if provided, shall withstand for one min without breakdown, the application of an ac potential of 1000V plus twice the max voltage of the winding applied between each winding and all other windings, the core, and the enclosure; except that if the max voltage of a winding does not exceed 30V, the test voltage may be reduced to 500V ac for that winding. Ungrounded metallic shields are to be treated as windings when performing these dielectric strength tests.

Notes:

1. As an alternative, potentials 20 percent higher may be applied for one second.
2. Where it is more convenient to do so, the dielectric strength tests may be made by applying a direct current voltage instead of an ac voltage, provided that the voltage used is 1.414 times the values specified above.
3. Capacitors in the secondary circuit may be disconnected during the dielectric strength tests specified in Items 1(a) to (c).
4. The test specified in Item 1(c) shall be waived on grounded or Class 2 circuits.
5. Transformer manufacturer's agreement to perform Test No 2 will be acceptable. Also, this test shall be waived on Certified transformers.

Warning: The factory test(s) specified may present a hazard of injury to personnel and/or property and should only be performed by persons knowledgeable of such hazards and under conditions designed to minimize the possibility of injury.

DESCRIPTION

Part A - Smart handset/speaker amplifier station, Models 701-902 with enclosures 7335-001 or 7335-005:

(i) Smart handset/speaker amplifier station, Model 701-902 – Similar to presently CSA accepted smart handset/speaker amplifier model 701-802 which is presently CSA certified under report 159658-2500004743. The only difference between 701-902 and 701-801 is that model 701-902 uses different PC board construction and has a AC hum shield. Model 701-902 has been evaluated to CSA standards for use in Cl. I, Div. 2, Gps. A, B, C and D by UL under UL report E98383, Refer to copy of UL report attached to this report for complete description.

(ii) Enclosure, Model 7335-001 and 7335-005 – These enclosures are presently CSA accepted to be used with handset/speaker amplifier model 701-802 and -804 under report 159658-2500004743. Refer to CSA report 159658-2500004743 for complete description.

Part B - Smart handset/speaker amplifier station, Models 751-901 with enclosures 733-001 or 7335-005:

(i) Smart handset/speaker amplifier station, Model 751-901 – Similar to presently CSA accepted smart handset/speaker amplifier model 751-801 which is presently CSA certified under report 159658-2500004743. The only difference between 751-901 and 751-801 is that model 751-901 uses different PC board construction and has a AC hum shield. Model 751-901 has been evaluated to CSA standards for use in Cl. I, Div. 2, Gps. A, B, C and D by UL under UL report E98383, Refer to copy of UL report attached to this report for complete description.

(ii) Enclosure, Model 733-001 and 7335-005 – These enclosures are presently CSA accepted to be used with handset/speaker amplifier model 701-802 and -804 under report 159658-2500004743. Refer to CSA report 159658-2500004743 for complete description.

Part C - Smart series remote handset/speaker amplifier station, Model 723-801 with desk top five party remote subset model A02027 and enclosure 7245-004.

(i) Smart series remote handset/speaker amplifier station, Model 723-801 - This remote handset/speaker amplifier station is presently CSA accepted to be used with desk top five party remote subset model 7265-101 and enclosure model 7245-004 under report 159658-2500003511. Refer to CSA report 159658-2500003511 for complete description.

(ii) Enclosure, Model 7245-004 – This enclosure is presently CSA accepted to be used as described in item (i) above, refer to CSA report 159658-2500003511 for complete description.

(iii) Desk Top Five Party Remote Subset, Model A02027 - Similar to presently CSA accepted desk top five party remote subset model 7265-101 which is presently CSA certified under report 159658-2500003511. The only difference between A02027 and 7265-101 is that model A02027 has an additional spst momentary push button switch across the AUX0 input and between ground so that when the switch is engaged the switch grounds the AUX0 input. As a result of this switch the amplifier is programmed to have an alternative page destination when the push button is depressed. Refer to the following drawings for further information A51016-001, A02027C03, 71967(Sheet 1 of 3), A02027B01 and A02027D02.

Descriptive Documents:

<u>Subject</u>	<u>Drawing No.</u>	<u>Rev.</u>	<u>Date</u>
U.L. Report (Vol. 1)	E98383	-	5-21-96 (Issued) 8-15-00 (Revised)
Switch, Pushbutton-Momentary, SPST Normally open (P/N 51016-001)	A51016-001	-	10/23/84
No. A02027A Flush Mount Panel Sunset Connection Diagram	A02027C03	-	5/21/02
Smart Station Base-16 PC Board Assembly Schematic No. 69241-002	71967	D	12/02/96
No. A02027 Flush Mount Smart Station Outline	A02027B01	-	5/21/02
No. A02027A Flush Mount Panel Subset Outline	A02027D02	-	5/21/02

TEST REPORT

No testing was deemed necessary since all (except A02027) components are either CSA or ULC certified for use in Cl. I, Div. 2 area.

No testing for the A02027 was deemed necessary since A02027 is similar to presently CSA accepted desk top five party remote subset model 7265-101 except for an addition of a pushbutton. This pushbutton switch was deemed non-incendive based on the circuit being resistive in nature with a $V_{oc} = 5 \text{ Vdc}$ and $I_{sc} = 0.5 \text{ mA}$.