



Descriptive Report and Test Results

MASTER CONTRACT: 302930

REPORT: 80125956

PROJECT: 80125956

Edition 1: August 11, 2022; Project 80125956 - Shanghai

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Descriptive Documents - Engineering files only

PRODUCTS

CLASS 4838 01 - TELECOMMUNICATION EQUIPMENT-For Hazardous Locations

CLASS 4838 81 - TELECOMMUNICATION EQUIPMENT-For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C and D T6

The G1100 WirelessHART Smart Gateway intend to be used for explosive atmospheres and the rating is 24Vdc with less than 0.5A Max. Temp. Code is T6 based on $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$. The enclosure Type 4X for indoor and outdoor.

Conditions of Acceptability:

1. The model of button battery is BR1225A with BR Coin-type Lithium, and using in G1100 WirelessHART Smart Gateway enclosure, the button battery cannot be replaced in hazardous location.
2. Use certified cable gland, stopping plug, conduit fitting or similar device with suitable ingress of protection, and the installation shall meet the requirements of CEC (for Canada) and NEC (for USA) for wiring method in Division 2 and is subjected to acceptance of local authorities having jurisdiction.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 62368-1-14

Audio/video, information and communication technology equipment Part 1: Safety requirements

CSA C22.2 No.213-17+ Update No.1-2018+ Update No.2-2019+ Update No.3-2021

Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Division 1 and 2 hazardous (classified) Location

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ANSI/UL 62368-1-2014 Second Edition	Audio/video, information and communication technology equipment Part 1: Safety requirements
ANSI/UL 121201-2021 Ninth Edition	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Division 1 and 2 hazardous (classified) locations
CSA C22.2 No. 94.2-20	Enclosures for electrical equipment, environmental considerations
ANSI/UL 50E-2020 Third Edition	Enclosures for electrical equipment, environmental considerations

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings are laser engraved onto the nameplate, and the nameplate fixed on the surface of product:

- Manufacturer's name: "Microcyber Corporation", or CSA Master Contract Number "302930", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- Date code or Serial number.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Temperature code rating: T6
- Ambient temperature range: -20°C to +60°C
- Complete electrical rating: As specified in the PRODUCTS section, above.
- Warning:
 - WARNING - EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED
 - AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION
 - WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
 - AVERTISSEMENT - NE PAS OUVRIR LORSQUE UN EXPLOSIF L'ATMOSPHÈRE EST PRÉSENTE

INSTALLATION MANUAL AND DOCUMENTATION

An installation manual, data sheet, or other documentation shall be supplied with each unit, containing the following minimum information:

- A recapitulation of the information with which the equipment is marked, except for the serial number.
- Manufacturer's name and address
- Name and address of importer or repairer, when necessary to facilitate repair.
- A description of the intended use of the equipment.

- A statement that if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Ambient temperature rating: -20°C to +60°C.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Specific commissioning instructions and, if necessary for safety, warnings against hazards which could arise during installation or commissioning of the equipment.
- Where applicable, Specific Conditions of Use – This information should not be hidden in the text and should be placed within the instructions in a highlighted way, often as a special chapter.
- Where applicable, any additional information for use, including information related to possible misuse, which experience has shown might occur.
- Following warning:

WARNING - EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED

AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

AVERTISSEMENT - NE PAS OUVRIR LORSQUE UN EXPLOSIF L'ATMOSPHÈRE EST PRÉSENTE

ALTERATIONS

N/A

FACTORY TESTS

N/A

SPECIAL INSTRUCTIONS FOR FIELD SERVICES

1. Component descriptions marked with either the "(INT)" or "(INT*)" identifiers may be substituted with other components providing the requirements specified under the notes in the "Description" are complied with.
2. This report contains reference to certain construction and engineering documents that have been deemed critical to ensuring continued compliance with applicable construction and performance requirements. A list of these documents, with drawing numbers and the appropriate revision levels is summarized in this report. Documents detailed herein are subject to inspection by CSA Group personnel and shall be made available in the manufacturing location upon request. Failure to produce these documents in a timely manner constitutes noncompliance and is subject to the actions outlined in the CSA Product Service Agreement.

COMPONENT SPECIAL PICKUP

1. Component descriptions marked with the identifier "(CT)" are subject to annual pickup and Conformity Testing.
2. Conformity testing is not applicable to the equipment in this report.

DESCRIPTION

Notes:

1. Component Substitution

- a) Critical components (those identified by mfr name, cat no), which are NOT identified with either "INT" or "INT*" are not eligible for substitution without evaluation and report updating
- b) The term "INT" means a "Certified" and/or "Listed" (or a "Recognized" and/or "Accepted") component may be replaced by one "Certified" and/or "Listed" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application; providing the applicable country identifiers are included and requirements in item "d" below are complied with.
- c) The Term "(INT*)" means a "Recognized" and/or "Accepted" component may be replaced by a component that is CSA Certified. The applicable country identifiers shall be included, the requirements in item "d" below as well as any "conditions of suitability" for the component (as recorded in this descriptive report) shall be complied with;
- d) Components which have been substituted, must be of an equivalent rating, configuration (size, orientation, mounting) and the applicable minimum creepage and clearance distances are to be maintained from live parts to bonded metal parts and secondary parts.
- e) Substitution of a "Certified" and/or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.
- f) Substitution of a "Recognized" and/or "Accepted" component by one that is not CSA Certified is not permitted without a proper evaluation as well as a report update because the Conditions of Acceptance of the original component may be different than the Conditions of Acceptance of the substitute component.

The G1100 WirelessHART Smart Gateway is intended to be used in CID2 explosive atmospheres. The enclosure is made of Aluminum Alloy(ADC12) with less than 0.2mm painting, and there is an antenna on the enclosure of G1100 WirelessHART Smart Gateway, and the antenna will be connect main PCB board by a connector. The G1100 WirelessHART Smart Gateway cover is fixed with housing by fastener (Galvanized M4 screws). There are five cable entries with M20x1.5 thread, and G1100 WirelessHART Smart Gateway with enclosure type TYPE 4X for indoor and outdoor. The button battery model BR1225A with BR Coin-type Lithium welding and using in G1100 enclosure, it can not be replaced.

Description of critical components:

The critical components relied on for ordinary locations are as follows:

Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Enclosure (main enclosure)	Ningbo Dayang Enclosures Co., Ltd.	ADC12	Cast Aluminum Alloy Size: 283mm x 210 x 64mm Size: 270mm x 195 x 34mm Thickness: 3 mm	--	--
Label	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	Stainless steel Size: 148 mm x 61 mm x 1.5 mm Thickness: 1.5mm	--	--
Screws for fixing label	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	stainless steel Size: 4-M3 x 1	--	--
Screws for fixing Main enclosure	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	stainless steel Size: 4-M5 x 1.5	--	--

Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Screws for hinge	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	stainless steel Size: 2-M5 x 1-47	--	--
Screws (for fixing other parts 1)	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	stainless steel Size: 8-M5 x 1	--	--
Screws (for fixing other parts 2)	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	stainless steel Size: 4-M8 x 50	--	--
Antenna enclosure (plastic)	Covestro Deutschland AG	6555 + (z)(f1)	PC, V-0, f(1), 115°C, Min. thickness: 2.5mm	ANSI/UL 746C	UL E41613
Antenna - cap	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	Stainless steel Size: Φ22.5 mm x 14.5 mm Thickness: 1.5mm	--	--
Antenna - Base	Ningbo Dayang Enclosures Co., Ltd.	SUS 304 0Cr18Ni9DQ	Stainless steel Size: Φ21.8 mm x 37 mm Thickness: 1.5mm	--	--
Gasket (for main enclosure)	Dow Toray Co., Ltd.	RBB-6300-50	Silicone, V-0, 150°C Thickness: 3.0mm Diameter: 257 mm x 184mm x 3.0 mm	UL 746C	UL E55519
Gasket 1 (O-ring, Antenna)	Dow Toray Co., Ltd.	RBB-6300-50	Silicone, V-0, 150°C, Min. thickness: 2.65mm Diameter: Φ20.3mm	UL 746C	UL E55519
Gasket 2 (O-ring, Antenna)	Dow Toray Co., Ltd.	RBB-6300-50	Silicone, V-0, 150°C, Min. thickness: 1.5mm Diameter: Φ15.5 mm	UL 746C	UL E55519
PWB (all)	KINGBOARD LAMINATES HOLDINGS LTD	KB-616(X)	V-0, 130°C, Thickness: 0.38mm	UL764	E123995
Glue for fixing all internal parts	Dow Silicones Corp	Dow Corning 7091(f2)	Silicone, white, HB or V-1, 105°C	QMFZ2	E40195
Glue for fixing antenna terminal	Dow Silicones Corp	CN-8617(f1)	Silicone, f(1), white, V-0 or V-1, 105°C	QMFZ2	E251343
Button battery	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	BR1225A	Primary Lithium/polycarbon monofluoride (Coin), Max Abnormal Charging Current mA: 3mA	UL1642 Edition 6	UL MH12210

Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Terminal Block (J1, J201)	NINGBO DEGSON ELECTRICAL CO LTD	DG500-5.0/5.08-2P	Cu, 2P, 300V, 20A	UL 1059 edition 5	UL E228872
Input terminal block (J2)	CIXI KEFA ELECTRONICS CO LTD	HB9500SS-9.5	18-10 Str/Sol, Str/Sol, Cu, 300V, 17.5A, class A	UL 1059 edition 5	UL E306245
Internal wire (white, 5V)	Shanghai Weirong Cable Co Ltd	1015	24 AWG, min. 80°C	UL 758 Edition 3	UL E498092
Alternative wire	Interchangeable	1015	24 AWG, min. 80°C	UL 758 Edition 3	UL
Internal wire (black, connecting with antenna)	JIANGSU ELESUN CABLE CO LTD	1354	44 AWG, min. 60°C	UL 758 Edition 3	UL E256541
Alternative wire	Interchangeable	1354	44 AWG, min. 60°C	UL 758 Edition 3	UL
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

The critical components relied on for hazardous locations are as follows:

Enclosure (cover)

Type: Metallic enclosure

Material: ADC12

Security Method: fixed together with Antenna cover by M4 screw

Minimum thickness: Greater than 3.0mm

Enclosure (Housing)

Type: Metallic enclosure

Cable entries: M20x1.5

Material: ADC12

Security Method: fixed together with Antenna cover by M4 screw

Minimum thickness: Greater than 3.0mm

Antenna housing

Type: PC Plastic

Material: 6555 + (z)(f1)

Security Method: Antenna cover and base can be cemented with housing by compound CN-8617(f1)

Minimum thickness: Greater than 2.5mm

Antenna connector

Type: MMCX RF connector

Part number: 135-9701-201 and 135-9403-101

Manufacturer: Cinch Electronic

Security Method: soldering on PCB main board.

Network connector

Type: Modular Jack 8/8, RJ45

File No.: E107635

Manufacturer: Molex Electronic

Security Method: soldering on PCB board and PCB mount modular jacks

Painting

Thickness: Less than 0.2mm on surface of Metallic enclosure

Material: Interpon 700/EW180Z

DESCRIPTIVE DOCUMENTS LIST:

Documents detailed herein are subject to inspection by CSA Group personnel and shall be made available in the manufacturing location upon request.

Drawing No.	Revision	Title
G1100-20-00	V1.0	General Assembly Drawing_Demension
G1100-20-00-01	V1.0	General Assembly Drawing
G1100-20-01	V1.0	Shell Cover
G1100-20-06	V1.0	Shell Body
G1100-20-11	V1.0	Housing Seal
G1100-20-08-00	V1.0	Omnidirectional Antenna Assembly
G1100-20-08-01	V1.0	Antenna Body
G1100-20-08-02	V1.0	Antenna Outside Columu
G1100-20-08-03	V1.0	Antenna Blocks
G1100-20-08-04	V1.0	Antenna Silicone Pad
G1100-20-08-05	V1.0	Antenna Adapter
G1100-20-08-07	V1.0	Antenna Terminal
G1100-20-08-08	V1.0	O-Ring For Antenna adapter
G1100-20-08-09	V1.0	Antenna Fixed Joint Gasket
G1100-20-08-10	V1.0	Antenna Hexagon fastener
G1100-20-07	V1.0	Nameplate
G1100-20-02	V1.0	AM335X Circuit Board
G1100-20-03	V1.0	GW-WH-003 circuit board
G1100-20-04	V1.0	GW-WH-0001 circuit board
G1100-20-05	V1.0	GW-WH-0002 circuit board
G1100-20-09	V1.0	LTP5903 circuit board
G1100-20-10	V1.0	LTP5903 Circuit Board AP
G1100-20-01-FBD	V1.0	GW-WH-G1100 FBD
G1100-20-05-PCB	V1.0	GW-WH-0002 PCB
G1100-20-04-PCB	V1.0	GW-WH-0001 PCB
G1100-20-02-PCB	V1.0	AM335X Core Board PCB

G1100-20-09-PCB	V1.0	LTP5903 Core board PCB
G1100-20-10-PCB	V1.0	LTP5903 Core board AP PCB
G1100-20-03-PCB	V1.0	GW-WH-0003 PCB
G1100-20-05-SCH	V1.0	GW-WH-0002 SCH
G1100-20-04-SCH	V1.0	GW-WH-0001 SCH
G1100-20-02-SCH	V1.0	AM335X Core board SCH
G1100-20-09-SCH	V1.0	LTP5903 Core board SCH
G1100-20-10-SCH	V1.0	LTP5903 Core board AP SCH
G1100-20-03-SCH	V1.0	GW-WH-0003 SCH
BOM		
G1100-20-02-BOM	1.0	AM335X Core board BOM
G1100-20-04-BOM	1.3	GW-WH-0001 BOM
G1100-20-05-BOM	1.4	GW-WH-0002 BOM
G1100-20-03-BOM	1.3	GW-WH-0003 BOM
G1100-20-09-BOM	1.0	LTP5903 Core board BOM
G1100-20-10-BOM	1.0	LTP5903 Core board AP BOM

TEST HISTORY

Project 80125044

1 Ordinary Locations Requirements:

1.1 Evaluation

General safety (ordinary locations requirements) assessment has been conducted with the following applicable standards

CSA C22.2 No. 62368-1-14

UL 62368-1-2014 Ed.2

CSA C22.2 No. 94.2-20

ANSI/UL 50E-2020 Third Edition

The checklist and assessment report for these standards is retained in the Test Results and Data folder associated with this project, as report 80125044 and 80125045.

1.2 Test

The following tests were conducted with satisfactory results:

No.	Clause	Testing item	Testing result - Remark	Verdict
1.	4.1.15, Annex F.3.9, and F.3.10	Durability, legibility and permanence of markings	Refer to 80125044 report.	Pass
2.	5.2	Classification of electrical energy sources	Refer to 80125044 report.	Pass

3.	5.4.1.4, 6.3.2, 9.0 and B.2.6	Temperature measurements	Refer to 80125044 report.	Pass
4.	6.2.2	Electrical power sources (PS) measurements for classification	Refer to 80125044 report.	Pass
5.	6.2.3.1	Determination of Potential Ignition Sources (Arcing PIS)	Refer to 80125044 report.	Pass
6.	6.2.3.2	Determination of Potential Ignition Sources (Resistive PIS)	Refer to 80125044 report.	Pass
7.	B.2.5	Input test	Refer to 80125044 report.	Pass
8.	B.3	Abnormal operating condition tests	Refer to 80125044 report.	Pass
9.	B.4	Fault condition tests	Refer to 80125044 report.	Pass
10.	8.2	Mechanical energy source classifications	Refer to 80125044 report.	Pass
11.	9.2	Thermal energy source classifications	Refer to 80125044 report.	Pass
12.	Annex M	Batteries	Refer to 80125044 report.	Pass
13.	Annex M.3	Protection circuits within the equipment	Refer to 80125044 report.	Pass
14.	Annex T.2, T.3, T.4 and T.5	Steady force	Refer to 80125044 report.	Pass
15.	Annex T.6	Impact test	Refer to 80125044 report.	Pass
16.	Annex V	Accessibility	Refer to 80125044 report.	Pass

The following tests were conducted with satisfactory results:

No.	Clause	Testing item	Testing result - Remark	Verdict
17.	8.6	Hosedown test	Refer to 80125045 report.	Pass
18.	8.13	Gasket tests	Refer to 80125045 report.	Pass

2 Hazardous location Requirements:

2.1 Evaluation

Hazardous location requirements assessment has been conducted with the following applicable standards.
 CSA C22.2 No.213:17+ Update No.1-2018+ Update No.2-2019+ Update No. 3-2021
 ANSI/UL 121201-2021 Ninth Edition

2.2 Test

No.	Clause	Testing item	Testing result - Remark	Verdict																																																				
1.	8.2	Pull force test	The antenna connector (MMCX RF connector) used to be connected the PCB main board, the antenna wire were terminated in the connector plug and the socket was welded on PCB main board. Apply 20N Pull force at middle wire of connector plug. The network connector (Modular Jack 8/8, RJ45) used to be connected the PCB main board, the internet wire were terminated in the network connector plug and the socket was welded on PCB main board. Apply 20N Pull force at middle wire of connector plug. The testing ambient temperature was 24.5°C. Not separation after 20N Pull force testing.	Pass																																																				
2.	10	Temperature measurement	The ambient temperature is -20°C - +60°C. The rating voltage is 24Vdc, and the testing voltage are 24Vac x 1.1times and 24Vac x 0.9times 24Vdc*110% as follows: <table><tr><td>Thermal point</td><td>Measured Tem.</td><td>Tem. rise (K)</td><td>Maximum Temp corrected to rated maximum ambient Temp (°C)</td></tr><tr><td>External Air Temperature</td><td>59.3</td><td>--</td><td>--</td></tr><tr><td>Max. temperature</td><td>70.8</td><td>11.5</td><td>71.5</td></tr><tr><td>Cable Entry Point</td><td>59.4</td><td>0.1</td><td>60.1</td></tr><tr><td>Branching point</td><td>61</td><td>1.7</td><td>61.7</td></tr><tr><td>Plastic Antenna</td><td>59.8</td><td>0.5</td><td>60.5</td></tr><tr><td>Max. service temperature</td><td>60.1</td><td>0.8</td><td>60.8</td></tr></table> 24Vdc*90% as follows: <table><tr><td>Thermal point</td><td>Measured Tem.</td><td>Tem. rise (K)</td><td>Maximum Temp corrected to rated maximum ambient Temp (°C)</td></tr><tr><td>External Air Temperature</td><td>59.5</td><td>--</td><td>--</td></tr><tr><td>Max. temperature</td><td>70.9</td><td>11.4</td><td>71.4</td></tr><tr><td>Cable Entry Point</td><td>59.5</td><td>0.0</td><td>60.0</td></tr><tr><td>Branching point</td><td>61</td><td>1.5</td><td>61.5</td></tr><tr><td>Plastic Antenna Enclosure</td><td>59.8</td><td>0.53</td><td>60.3</td></tr></table>	Thermal point	Measured Tem.	Tem. rise (K)	Maximum Temp corrected to rated maximum ambient Temp (°C)	External Air Temperature	59.3	--	--	Max. temperature	70.8	11.5	71.5	Cable Entry Point	59.4	0.1	60.1	Branching point	61	1.7	61.7	Plastic Antenna	59.8	0.5	60.5	Max. service temperature	60.1	0.8	60.8	Thermal point	Measured Tem.	Tem. rise (K)	Maximum Temp corrected to rated maximum ambient Temp (°C)	External Air Temperature	59.5	--	--	Max. temperature	70.9	11.4	71.4	Cable Entry Point	59.5	0.0	60.0	Branching point	61	1.5	61.5	Plastic Antenna Enclosure	59.8	0.53	60.3	Pass
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			Max. service temperature	60.1	0.6	60.6	
			The maximum temperature was 76.5°C after considered the 5°C margin.				
			Ta	T code(°C):			
			-20°C≤Ta≤60°C	T6			

Construction Review:

Construction review performed with satisfactory results.

Checklist

Standard No.	Version	Date
CSA C22.2 No. 62368-1-14	2022-05-06	July 06, 2022
ANSI/UL 62368-1-2014 Second Edition	2022-05-06	July 06, 2022
CAN/CSA-C22.2 No. 213-17+ Update No.1-2018+ Update No.2-2019+ Update No. 3-2021	1.0	2022-06-15
ANSI/UL 121201-2021 Ninth Edition	1.0	2022-06-15
CSA C22.2 No. 94.2-20	2022-05-06	July 06, 2022
ANSI/UL 50E-2020 Third Edition	2022-05-06	July 06, 2022

---End of Report---