



Certificate of Compliance

Certificate: 1428603

Master Contract: 219283

Project: 80078620

Date Issued: June 16, 2021

Issued to: Kongsberg Maritime AS
Skonnertvegen 1
7053 Ranheim
NORWAY
Attention: Jan Stewart Rambech

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Adrian Zilahi
Adrian Zilahi, P.Eng.

PRODUCTS

CLASS 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C and D, Class II, Division 2, Groups E, F and G, T4; Ex nA IIC T4;

Class I, Zone 2, AEx nA IIC T4:

Wireless Temperature Measuring System, Sentry GB200:

Signal Processing Unit Sentry SPU-GBP200, Enclosure Type 3, Rated 24Vdc (18-32 Vdc), 17 W, 70 °C ambient
Temperature Sensors GBW Series and Stationary Antenna GBS1 Series rated for 130°C ambient.



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NOTE:

The Signal Processing Unit is intended for installation in a suitable electrical enclosure and provides Non-Incendive connection to the Stationary Antennas.

The Signal Processing Unit provides Non-Incendive connection to the Stationary Antennas.

Sentry SPU-GBP200: The Power/data cables are not provided. End use installation is responsible for employing suitably sized, rated, approved type wiring for Hazardous (Classified) Locations.

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No 0-10	General Requirements - Canadian Electrical Code Part II.
CSA C22.2 No 0.4-04	Bonding of Electrical Equipment
CSA C22.2 No 25-1966	Enclosures for Use in Class II Groups E, F and G Hazardous Locations.
CAN/CSA C22.2 No 94.2-07	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No 213-M1987	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
CAN/CSA C22.2 No 61010-1-04	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements.
CAN/CSA C22.2 60079-15:12	Electrical apparatus for explosive gas atmospheres PART 15: Construction, Test and Marking of Type of Protection “n” electrical apparatus.
ANSI/UL 61010-1, Second Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements.
ANSI/ISA-60079-15	Electrical apparatus for explosive gas atmospheres PART 15: Construction, Test and Marking of Type of Protection “n” electrical apparatus.
ANSI/UL 1604, Third Edition	Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations.
ANSI/UL 50E-2007	Enclosures for Electrical Equipment, Environmental Considerations

Conditions of Acceptability:

The Signal Processing Unit is intended for installation in a suitable electrical enclosure where end use installation provides suitable wiring method.

The Signal Processing Unit provides Non-Incendive connection to the Stationary Antennas. The Power/data cables are not provided. End use installation is responsible for employing suitably sized, rated, approved type wiring for Hazardous (Classified) Locations.

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.



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- 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 Sensors and Antennas are marked with the Submitter's name, Cat. no., CSA mark and hazardous location designations.

The following markings appear on the Signal Processing Unit (SPU)

- (1) Manufacturer's name: "Kongsberg Maritime AS", or CSA Master Contract Number "219283", adjacent to the CSA Mark in lieu of manufacturer's name.
- (2) Model number: As specified in the PRODUCTS section, above.
- (3) Electrical ratings, as specified in the PRODUCTS section, above.
- (4) Manufacturing date in MMY format, or serial number traceable to month and year of manufacture.
- (5) Hazardous Location designations: "Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups E, F, G". The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- (6) Zone Markings (optional): Class I, Zone 2, AEx nA IIC T4
- (7) Temperature code T4: As specified in the PRODUCTS section, above.
- (8) Ambient Temperature: As specified in the PRODUCTS section, above.
- (9) The CSA Mark with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- (10) The following bilingual cautions:

"WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 OR CLASS II, DIVISION 2: and, AVERTISSEMENT RISQUE D'EXPLOSION: LA SUBSTITUTION COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE FOR LES EMPLACEMENTS DE CLASSE I, DIVISION 2 OU CLASSE II, DIVISION 2".

"WARNING: EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS: and, AVERTISSEMENT RISQUE D'EXPLOSION, NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QUI'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX"

REQUIRED METHOD OF MARKING:

The marking shall be permanent, such as a 0.5mm thick metal nameplate secured by drive pins or screws in bottomed holes, cast, etched, or engraved.

Or CSA Accepted self-adhesive nameplate material.



Supplement to Certificate of Compliance

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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
80078620	2021-06-TBD	Update to Report 1428603 to: - Address the non-conformance issues noted in (FC# 220076) Factory Inspection Report (FIR) dated February 2, 2021, updating the report to reflect current revision of documents. - Delisting of model GB-100. The non-conformance issues as listed in FIR_220076-210202_en_iPAD regarding Wireless Temperature Measuring System, Sentry GB 100 have not been addressed. Customer Requested.
70018643	2014-12-23	Update report 1428603: include revised and additional documents.
2521531	2012-06-27	Wireless Temperature Measuring System Sentry GB-200: update report 1428603.
2137733	2009-02-18	Update report 1428603: include revised documents.
1469119	2003-08-20	CSA C_US - Addition of US & Report Correction.
1428603	2003-06-26	Original Certification of Model Sentry GB100, with GBP100 Signal Processing Unit, GBS1 Series Antennas and GBW Series Sensors.