DNV·GL

TYPE EXAMINATION CERTIFICATE

[2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU

[3] Type Examination Certificate Number: **Presafe 18 ATEX 13742X** **Issue 0**

[4] Product: **SENTRY GB-300 Wireless Temperature Measuring System**

[5] Manufacturer: **Kongsberg Maritime AS**

[6] Address: **Skonnertvegen 1**
7053 Ranheim
Norway

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

[8] DNV GL Presafe AS 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 reports listed in section 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2018, EN 60079-11: 2012 and EN 60079-15: 2010

[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 equipment and not to specific items of equipment subsequently manufactured.

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

II 3(1) G Ex nA [ia Ga] IIC T5 Gc -25°C≤Ta≤+85°C

Date of issue:
2020-05-13

NORSK AKKREDITERING
PROD 021

Asle Kaastad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info

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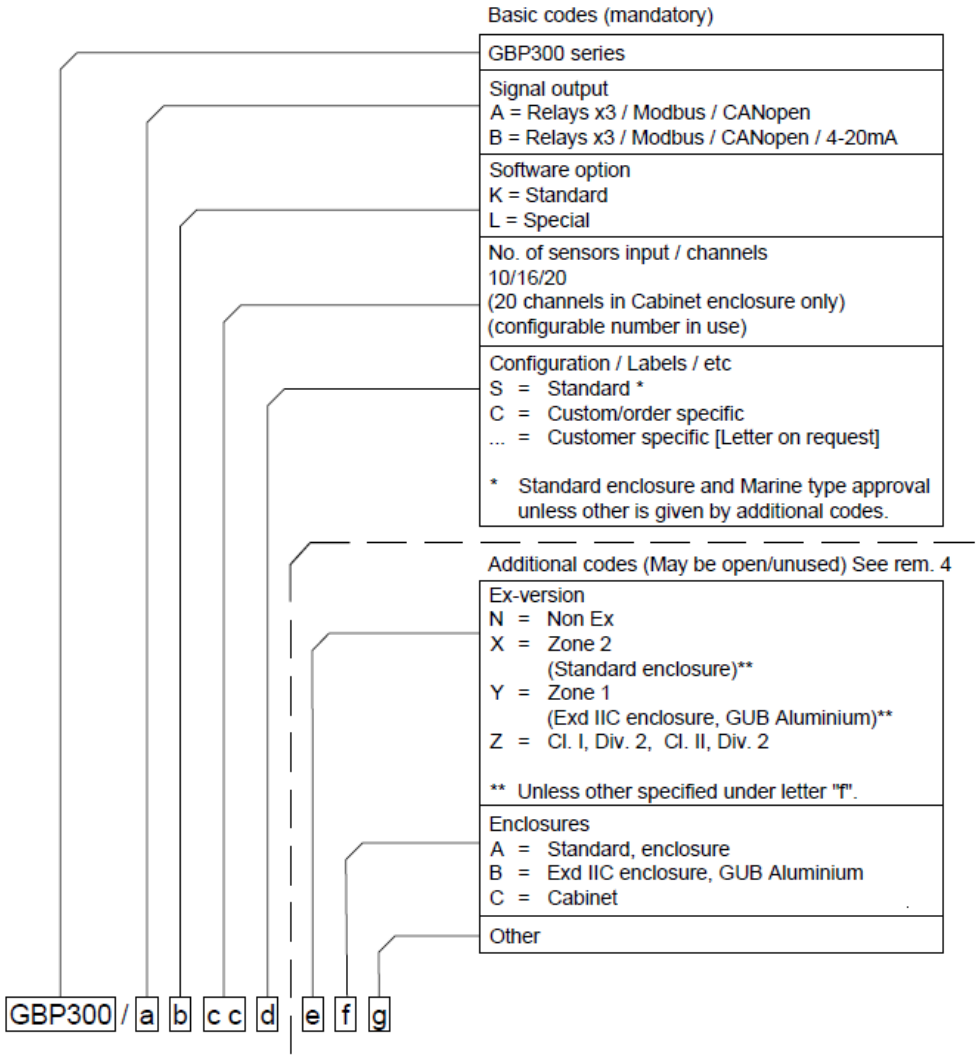
[13] **Schedule**

[14] **Type Examination Certificate No:** Presafe 18 ATEX 13742X Issue 0

[15] **Description of Product**

The SENTRY SPU GNP300, covered by this certificate, is the signal-processing unit in a wireless temperature measuring system. The signal-processing unit comprises a metal enclosure containing the power supply, communication and up to 20 intrinsically safe RF channels. The signal-processing unit generates a low energy and high frequency radar pulse, which is transmitted to a wireless sensor via a stationary antenna (antenna and sensor are not covered by this certificate).

Type designation
SENTRY SPU - GBP300/abccdefg



Electrical Data
Power supply: 24VDC nom. (18-32VDC)
Maximum safe voltage Um: 250VAC
Max RF pulse power out 100mW, mean RF power 140 µW, 856MHz

Degrees of protection (IP Code)
IP54 accordance with IEC 60529

Ambient temperature:
-25°C to +85°C

Routine tests
None

[16] **Report No**.: D0003234

[17] **Specific Conditions of Use**
* The equipment does not fulfil the dielectric strength requirement according to Clause 6.3.13 of IEC 60079-11:2011. Special consideration must be taken under installation. See Safety Control Drawing no. GB-1233.
* Separate IECEx / ATEX certified IP54 cable gland or plugs shall be used.

[18] **Essential Health and Safety Requirements**

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

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[19] **Drawings and documents**

Number	Title	Rev.	Date
7212-500.000	GBA-300 PCB layout	B	12.03.2019
7212-500.900	GBA-300 PCB specification	A	01.11.2018
7212-500.911	GBA-300 Bill of Material ex variant	A	19.03.2019
GB-1204	GBA-300 Schematics	B	25.05.2018
E-2782	Name label zone 1 and zone 2	D	22.04.2020
GB-1233	Safety control drawing	B	20.04.2020
GB-1234	Framework drawing GB300 zone 2	B	02.03.2020
447662	Instructions for using GBP300 in hazardous area	A	21.04.2020
448173	GBA-300 coating information	A	15.05.2019
449688	GBP300 RF output and GBS-1 Simple apparatus	C	12.11.2019
GB-1235	GBP300 Ordering key	D	20.04.2020
457503	Framework drawing GB300 zone 2 STAHL cabinet	A	20.04.2020

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue, Presafe 18 ATEX 13742X	2020-05-13	D0003234

END OF CERTIFICATE

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