

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Gas Detector**with type designation(s)
Sensepoint XRL

Issued to

Honeywell Analytics Asia Pacific Co., Ltd.
Seoul, Republic of Korea

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	C / IP66

Issued at **Høvik** on **2019-11-15**for **DNV GL**This Certificate is valid until **2024-11-14**.DNV GL local station: **Seoul**Approval Engineer: **Nils Jarem**

Trond Sjøvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Sensepoint XRL is a single-sensor fixed gas detector, which supports the following interfaces dependent on the model:

- Analog output: Sensepoint XRL features current loop output, supporting signals in the range 0 to 22 mA. Typically this interface is referred to as 4 to 20 mA.
- Digital output: Sensepoint XRL supports Modbus RTU digital communications.
- Mobile app: A mobile app is available to commission and maintain the Sensepoint XRL gas detector.

Sensepoint XRL detector types for the detection of the following gases:

- SPLI01...: Oxygen (O2)
0 to 25% vol
- SPLIF6...: Combustible gases
0 to 100 % LEL (adjustable between 20 and 100% LEL, Factory calibrated to Methane)

Nominal DC input voltage 24 V DC
Nominal AC input voltage 24 V AC, 50/60 Hz
Bluetooth transceiver Bluetooth 4.0, Bluetooth low energy (BLE),
Frequency range 2402-2480 MHz, Max RF power: -13.33 dBm

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

Ex installations to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Ex-certification is not covered by this certificate and the following paragraph, which is for information only, is based on information received from the manufacturer, but not verified by DNV GL.

Information on Ex-Certification received from manufacturer – Not verified by DNV GL		
Equipment	Certified	Certificate No.
Sensepoint XRL	Ex db IIC T6 Gb, -40°C to +65°C	IECEX UL 17.0038X

Bluetooth transceiver. The frequency band 2400-2500 MHz is defined by ITU-R Radio Regulations (2016) as an ISM-band. Any use of the radio frequency band has to be in line with the requirements of the administration concerned.

Type Approval documentation

Data sheet: DS_01178 rev. 01
Manual: 3017M5023_1
Assy drawing: 3017EA001 rev. 1
Test reports: 17-11592966-1-EMC dated 2017-05-29
17-11592966-2-EMC dated 2017-05-29
DRCKREL 1611-0455 dated 2016-11-21 (IP66)
DRCREL 1903-0201 dated 2019-03-19 (env. tests)
DRCREL 1903-0203 dated 2019-03-19 (salt mist)
DRCREL 1907-0496 dated 2019-07-02 (EN 60079-29-1)
DRCREL 1907-0497 dated 2019-07-02 (EN 50104)
DREETC 1903-0041 dated 2019-03-08 (Low Frequency)
17-11592966-CE-RF1 dated 2017-05-31
17-11592966-CE-WEMC dated 2017-07-26

Job Id: **262.1-030434-1**
Certificate No: **TAA00002F9**

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.
Performance tests according to EN 60079-29-1:2016 and EN 50104:2010

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE