

**EC-TYPE EXAMINATION
CERTIFICATE**

Certificate No:
MED-B-9755
Item No:
A.1/3.54
Job Id:
344.1-001987-7

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fixed oxygen analysis and gas detection equipment

with type designation(s)

Oxygen Detector Sensepoint XCD(O2) and Flammable Gas Detector Sensepoint XCD(FL)

Issued to

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

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/3.54 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/4 & VI/3 and FSS Code 15

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2015-02-27
for **DNV GL AS**



This Certificate is valid until
2020-02-26

M. Strand Valderhaug

Marianne Strand Valderhaug
Head of Department

Notified Body No.: **0575**

DNV GL local office:
Seoul

A. Gdaniec

Andrzej Gdaniec
Surveyor *AG*



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

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Product description

This certificate covers the Sensepoint XCD type designation comprising a gas detector transmitter and a choice of sensors for detecting flammable gas and oxygen.

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area 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.

The equipment are found to comply with following location/application dependent requirements (for definition of each of the location classes, see below the table):

| MODEL | TEMPERATURE | VIBRATION | EMC | ENCLOSURE |
|--|----------------|----------------|----------------|--------------|
| Oxygen Detector Sensepoint XCD(O ₂) Flammable Gas Detector Sensepoint XCD(FL) | TEM-C TEM-C | VIB-A VIB-A | EMC-B EMC-B | IP66 IP66 |

Definition of the location classes with reference to relevant standards:

Temperature

TEM-C Location (-25°C to +55°C) (ref. IEC 60092-504 (2001) table 1 item 6-7)

Vibration

VIB-A (ref. IEC 60092-504 (2001) table 1 item 10)

EMC

EMC-B Bridge and open deck zone (ref. IEC 60092-504 (2001) table 1 item 19-20)

Enclosure

Test carried out for IP66.

Type Examination documentation

| Documentation | Documentation Reference Number |
|---|---|
| Sensepoint XCD Technical Manual Sensepoint XCD Transmitter Assy Cartridge Socket Assy | SPXCDHMANEN Issue 1 3001EA026 Rev.7 3001EA027 Rev.8 |
| Test reports | KTL Report No.: PIS 10020-1 dated May 7, 2010 |
| | KTL Report No.: 09-2342-0006 dated February 4, 2009 |
| | KTL Report No.: PIS 10020-2 dated May 7, 2010 |
| | KTL Report No.: 09-2342-0007 dated February 4, 2009 |
| | KTL Report No.: 10-2351-0075-1 dated July 15, 2010 |
| | KTL Report No.: 10-2351-0075-2 dated July 21, 2010 |

Tests carried out

Tests carried out according to the following standards:

- IEC 60092-504 (2001)
- IEC 60533 (1999)
- IEC 60945 (2002)
- EN 60079-29-1 (2007)
- EN 50104 (2010)



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Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trade mark
- Type designation
- Mark of Conformity (see below)

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

