

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00002DM**  
Revision No:  
**1**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. 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)

**Flammable Gas Detector Sensepoint XCD FL-IR**

Issued to

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

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

Regulation **(EU) 2017/306,**

**item No. MED/3.54. 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.

This Certificate is valid until **2019-06-01.**

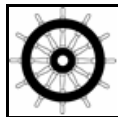
Issued at **Høvik** on **2018-03-19**

DNV GL local station:

**Seoul**

Approval Engineer:

**Nils Jarem**



Notified Body  
No.: **0575**

for **DNV GL AS**

**Roald Vårheim**  
**Head of Notified Body**



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-003373-3**  
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## Product description

The Sensepoint XCD FL-IR is a fixed gas detector used to monitor areas where flammable gases may pose a hazard to environment. The Sensepoint XCD comprises a gas detector transmitter and a choice of sensors for detecting flammable gases. Sensepoint XCD sensors use NDIR infrared and electrocatalytic technologies.

## Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Information on Ex-Certification received from manufacturer – Not verified by DNV GL		
Equipment	Certified	Certificate No.
XCD Transmitter	Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66	Baseefa IECEX BAS 08.0072 Issue No.3
XCD Gas Sensor Head	Ex d IIC T6 (Ta -40°C to +65°C) Gb Ex tb IIIC T85°C Db IP6X A21	Baseefa IECEX BAS 08.0104X Issue No.1

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
Flammable Gas Detector Sensepoint XCD(FL)	TEM-A	VIB-A	EMC-B	IP66

The equipment are found to comply with following location/application dependent requirements:

- TEM-A Location (+5°C/+55°C) (ref. IEC 60092-504 (2016) table 1 item 6-7)
- VIB-A For general applications (ref. IEC 60092-504 (2016) table 1 item 10)
- EMC-B Bridge and open deck zone (ref. IEC 60092-504 (2016) table 1 item 13-20)
- Outdoor (IP66) (ref. IEC 60092-504 (2016) table 1 item 12)

## Type Examination documentation

DNV GL No	Document	Doc. Ref. No.	Date/Rev.
1	Sensepoint XCD FL-IR Specification	DS01077	-
14	Sensepoint XCD Technical Manual	SPXCDHMANEN	03/2011 R6
26	Datasheet: Premier Platinum IR HC Sensor	TDS0123	2016-09-12
27	Datasheet: IRNEX-P IR Sensor	DS3691	2016-04-01
6	Report: KTL, Envir. Test Report Sensepoint XCD	PIS 10020-2	2010-05-07
7	Report: KTL, Vibration Test Report Sensepoint XCD	08-2372-118-01	2008-05-20
8	Report: KTL, EMC Test Report 1 Sensepoint XCD FL Transmitter	09-2342-0007	2009-02-04
9	Report: KTL, EMC Test Report 2 Sensepoint XCD FL Transmitter	10-2351-0075-1	2010-07-15
10	Report: KTL, IP66 for sensepoint XCD	08-1454-260	2008-06-10
11	Report: KTL, Performance Test Report Sensepoint XCD FL IR	PIS 11334-1	2010-05-13
12	Report: KTL, EMC Test Report Sensepoint XCD IR Remote	10-2351-0063-1	2012-03-30

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<b>DNV GL No</b>	<b>Document</b>	<b>Doc. Ref. No.</b>	<b>Date/Rev.</b>
13	Report: KTL, Performance Test Report Sensepoint XCD (FL IR)	PIS 11334-1	2012-03-30
18	Report: Dt&cC, Envir. Test Report Sensepoint XCD (FL-IR)	DRCREL1705-0254	2017-05-15
19	Report: Dt&cC, EMC Test Report Sensepoint XCD (FL-IR)	DRECEE1705-0462	2017-05-17
22	Report: Dt&cC, Envir. Test Report Sensepoint XCD (FL-IR) with new IR sensor	DRCREL1711-0621	2017-11-20
23	Report: Dt&cC Performance Test Report Sensepoint XCD (FL-IR) with new IR sensor	DRCREL1711-0622	2017-11-20
24	Report: Dt&cC, EMC Test Report Sensepoint XCD (FL-IR) with new IR sensor	DREETC1709-0168	2017-09-28

### Tests carried out

IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011  
IEC 60533:2015  
EN 60079-0:2012 incl. A11:2013  
EN 60079-29-1:2007

### 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 (wheel mark), followed by
  - identification number of the NoBo involved in production control (MED D)
  - the year the mark is affixed.
  - Example: 0575/2018