

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gas Technical Ancillary Equipment

with type designation(s)
OELD Smart Junction Box

Issued to

Honeywell Analytics Asia Pacific Co., Ltd.
Seoul, 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/C
EMC A
Enclosure C/IP66

Issued at **Høvik** on **2017-12-06**

This Certificate is valid until **2022-12-05**.

DNV GL local station: **Seoul**

for **DNV GL**

Approval Engineer: **Nils Jarem**

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Odd Nesvåg
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.



Job Id: **262.1-026063-1**
Certificate No: **TAA00001H9**

Product description

OELD Smart junction box

OELD is a hazardous location certified junction box for use with sensors that feature a 4-20 mA output. The OELD unit has been designed to operate with the Searchpoint Optima Plus or Searchline Excel range of gas detectors. It provides a local visual status indication, and a Bluetooth® low energy interface for configuration and maintenance using a Bluetooth®-enabled mobile device.

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.
OELD Smart junction box	Ex db IIC T6; $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +65^{\circ}\text{C}$	IECEx UL 16.0066X

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Marking of product

The products to be marked with:

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

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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