

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 Norway.

This is to certify:

That the Fixed oxygen analysis and gas detection equipment

with type designation(s)
Touchpoint Plus

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.54. SOLAS 74 as amended, Regulation II-2/4 & VI/3 and FSS Code 15

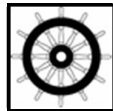
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-03-12**.

Issued at **Høvik** on **2019-03-13**

DNV GL local station:
Seoul

Approval Engineer:
Nils Jarem



Notified Body
No.: **0575**

for **DNV GL AS**

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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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

The Touchpoint Plus is an entry level touch-screen digital Controller for general industrial and commercial gas detection systems. It has eight input channels.

It can handle a wide range of milliamp, millivolt, and catalytic sensors through analogue inputs, and it can control various outputs such as audible and visible signals and solenoid valves.

The cabinets are constructed from high-impact plastic and have fully-sealed, easy opening access. They are supplied with a wall mounting or can be directly mounted to any solid vertical surface or rack. Cable entry is via entry glands on the lower side.

Application/Limitation

Touchpoint Plus is not Ex certified, and it shall only be installed in safe areas where there are no flammable atmospheres, and where oxygen concentrations cannot exceed 25% v/v O₂.

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:

Temperature:

TEM-A: Tested at +5°C to +55°C (ref. IEC 60092-504 (2016) table 1 item 6-7)

Vibration:

VIB-A: Tested at ± 1mm/ ±0.7g (ref. IEC 60092-504 (2016) table 1 item 10)

EMC:

EMC-B: Bridge and open deck zone (ref. IEC 60092-504 (2016) table 1 item 19-20)

Enclosure:

IP54 Engine rooms (ref. IEC 60092-504 (2016) table 1 item 12)

Type Examination documentation

| Drw. No. | Rev. | Title |
|---|---------------------|--|
| 3011M5001_3 | Issue 03/2016-02-29 | Technical Handbook Touchpoint Plus |
| 3011G0459 | D | Installation drawing |
| 3011C0502 | 6 | Touchpoint Plus Main PCB diagram |
| DRCREL1804-0236 | 2018-04-26 | Test report Touchpoint Plus /TPPL (ENV tests) |
| DREETC1803-0032(1) | 2018-08-29 | Test report Touchpoint Plus /TPPL (EMC tests) |
| PFG 17 G 002 X | 2019-02-06 | Type Examination Certificate, EN 50104 |
| BVS 17 ATEX G 001 X | 2019-02-06 | EU-Type Examination Certificate, EN 60079-29-1 |
| Datasheet_Touchpoint Plus_DS01157_V3_EN-US dated 2017-11, Datasheet Touchpoint Plus | | |

Tests carried out

- IEC 60092-504 (2016)
- IEC 60533 (2015)
- EN 50104 (2010)
- EN 60079-29-1 (2016)
- IMO MSC.1/Circ. 1370

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