



# IECEX Certificate of Conformity

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification Scheme for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue: **2012-08-30** Page 1 of 3

Applicant: **Kongsberg Maritime AS**  
Haakon VII's Gate 4  
NO-7005 Trondheim  
Norway

Electrical Apparatus: **Temperature Transmitter**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Ta=-40 to +70°C**

Approved for issue on behalf of the IECEx Certification Body: **Asle Kaastad**

Position: **Certification Manager, Ex-products**

Signature:  
(for printed version)

Asle Kaastad

Date:

2012-08-30

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**NEMKO**  
**Gaustadalleen 30**  
**Oslo N-0314**  
**Norway**





# IECEx Certificate of Conformity

Certificate No.: IECEx NEM 12.0010

Date of Issue: 2012-08-30

Issue No.: 0

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Manufacturer: **Kongsberg Maritime AS**  
Haakon VII's Gate 4  
NO-7005 Trondheim  
Norway

**Manufacturing location(s):**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

**STANDARDS:**

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

**TEST & ASSESSMENT REPORTS:**

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

NO/NEM/ExTR12.0013/00

Quality Assessment Report:

NO/NEM/QAR12.0004/00



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Certificate No.: IECEx NEM 12.0010

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The apparatus is a triple temperature transmitter with 4-20mA outputs. The transmitters are completely separated and each transmitter circuit shall be connected to a certified diode safety barrier with the appropriate safety parameters. The transmitter enclosure is made of stainless steel.

Type Designation: GC-120/ -U

The stated input values  $U_i$ ,  $I_i$ ,  $P_i$  are to be regarded as separate maximum values. It is a precondition that the supply barrier has a linear resistive output characteristic. The output terminals 3,4,5,6 are for the connection of sensing elements.

The elements are not parts of the certified apparatus and may be used as "Simple apparatus" according to IEC 60079-11 clause 5.7. The cable connecting the sensing elements may be up to 300m. The capacitance and inductance of the cable need not be considered.

Safety data:

Maximum input voltage:  $U_i=28V$   
Maximum input current  $I_i=147mA$   
Maximum internal capacitance  $C_i=33nF$   
Maximum internal inductance  $L_i=5\mu H$

**CONDITIONS OF CERTIFICATION: NO**