



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CNEX 21.0001X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-04-22

Applicant: **Green Instruments A/S**
Erhvervsparken 29
DK-9700 Broenderslev
Denmark

Equipment: **Ex Opacity Transceiver Model G16/G26**

Optional accessory:

Type of Protection: **Ex ib, op is**

Marking: Ex ib op is IIB T4 Gb
Ex ib op is IIIB T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Hou Yandong

Position:

Certification Officer

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CNEX-Global B.V.
Utrechtseweg 310-B38
6812AR, Arnhem
Netherlands





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Page 2 of 4

Date of issue: 2021-04-22

Issue No: 0

Manufacturer: **Green Instruments A/S**
Erhvervsparken 29
DK-9700 Broenderslev
Denmark

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

This Certificate **does not** indicate compliance with 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:

[NL/CNEX/ExTR21.0001/00](#)

Quality Assessment Report:

[GB/EXV/QAR21.0004/00](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX CNEX 21.0001X**

Page 3 of 4

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Ex Opacity Transceiver type G16/G26 consists of enclosure and internal circuits and optical components. The enclosure consists of the transceiver house and the end lid. The transceiver housing is made of AISI 316 stainless steel. There is an optical window glued in front of the transceiver house. The optical window is made of N-BK7 tempered glass. The end lid is made of AISI 316 stainless steel and includes the keypad HMI interface. The Ex Opacity Transceiver is powered by an external power supply. External electrical connections are made through two ports: the Power Supply port and the Bus-Interface port.

For electrical parameters and further details, see the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is limited to -25°C ... +55°C.

When installing and using the equipment, ensure overvoltage category I/II according to IEC60664-1 is fulfilled.

When installing and using in combustible dust environment, measures should be taken to prevent dust accumulation on the surface of the enclosure.

When installing and using the equipment, measures should be taken to protected from UV light.

Static Electricity Hazard – clean only with damp cloth.



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Page 4 of 4

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Additional information:

The enclosure of the Ex Opacity Transceiver model G16/G26 successfully passed the tests for the Ingress Protection Level IP54 to IEC 60529.

Annex:

[P20078I-CCA certificate IECEx CNEX 21.0001X issue 0 Annex.pdf](#)



Annex to Certificate IECEx CNEX 21.0001X Issue 0

Equipment or Protective System: **Ex Opacity Transceiver Model G16/G26**
Applicant: **Green Instruments A/S**
Address: **Erhvervsparken 29, DK-9700 Broenderslev, Denmark**

Electrical Data:

Rated voltage : 24 Vdc

Intrinsic safety parameters:

Port Name	Ui (V)	Ii (mA)	Pi (mW)	Ci (μ F)	Li(μ H)
Power Supply	24.0	180	1100	0.011	71
Bus-Interface	4.0	100	90	200	71

Descriptive Documents:

Detailed in the Test Report Cover document.
(ref. P20078I-CS)

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

None required.

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B38, 6812 AR, Arnhem, the Netherlands

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