



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 SIR 13.0014X**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2017-06-15)

Issue 3 (2015-04-08)

Issue 2 (2015-03-24)

Issue 1 (2015-03-04)

Issue 0 (2013-05-03)

Date of Issue: 2020-04-21

Applicant: **Neles Finland Oy**
Vanha Porvoontie 229
Vantaa FIN-01380
Finland

Equipment: **Remote Communication Interface RC19H2**

Optional accessory:

Type of Protection: **Intrinsic Safety ia**

Marking: [Ex ia Ga] IIC
Ta = -20°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

N Jones

Position:

Certification Manager

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:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Manufacturer: **Neles Finland Oy**
Vanha Porvoontie 229
Vantaa FIN-01380
Finland

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

IEC 60079-26:2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
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 Reports:

[GB/SIR/ExTR13.0067/00](#)
[GB/SIR/ExTR17.0122/00](#)

[GB/SIR/ExTR15.0061/00](#)
[GB/SIR/ExTR20.0077/00](#)

[GB/SIR/ExTR15.0093/00](#)

Quality Assessment Report:

[NO/DNV/QAR09.0008/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The RC19H2 is a Remote Communication Interface unit which limits the transfer of energy from the Safe Area into the Hazardous Area. It is associated electrical equipment designed to provide an intrinsically safe output to equipment such as the ValvGuard located in zone 0 hazardous area.

The RC19H2 comprises electronic circuit mounted on a printed circuit board which is housed in a plastic enclosure designed to be mounted on a rail. External electrical connections to the safe area are made at six sets of (white) terminals and external connections to the hazardous area are made at a set of (blue) terminals.

At the safe area side terminals POWER SUPPLY, SAFETY SIGNAL, TESTING STATUS, ALARM STATUS, HART AND PST START

$U_m = 253\text{ V}$

At hazardous area side terminals SIGNAL TO VG

$U_o = 24.5\text{ V}$

$I_o = 93.6\text{ mA}$

$P_o = 595\text{ mW}$

$C_o = 0.117\text{ }\mu\text{F}$

$L_o = 4.29\text{ mH}$

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The isolating transformers used in the equipment shall be subjected to a routine electric strength test using a test voltage of 1500 Vac applied between the input and out windings for 60 s. Alternatively, a voltage of 20% higher may be applied for 1 s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The user and installer shall comply with the following Specific Conditions Of Use:

1. The quoted entity parameters of C_o and L_o are applicable for the distributed capacitance and inductance in cable. Where there is circuit capacitance or inductance in the connected equipment (represented by C_i and L_i respectively), then these values shall not exceed 50% of the quoted C_o and L_o .



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

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Issue 1 – this Issue introduced the following changes:

1. It was recognised that electrical components, circuits and the circuit board layout were changed.
2. An EMC cap was allowed to be placed over each transformer

Issue 2 – this Issue introduced the following change:

1. The company name was changed from Metso Automation Oy to Metso Flow Control Oy.

Issue 3 – this Issue introduced the following change:

1. The electrical circuits and PCB layout were changed; this modification does not affect the explosion safety.

Issue 4 – this Issue introduced the following change:

1. To permit alternative circuit component values.

Issue 5 – this Issue introduced the following change:

1. Changes to the application name.