



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 EESF 20.0013X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 0	
Date of Issue:	2020-05-27		
Applicant:	Neles Finland Oy Vanha Porvoontie 229 P.O. Box 304 Vantaa FI-01301 Finland		
Equipment:	Local control panels LCP9HL and LCP9HWL		
Optional accessory:	n/a		
Type of Protection:	Intrinsically safe		
Marking:	Ex ia IIC T6...T4 Gb or Ex ic IIC T6...T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:

2020-05-27

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:

Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo
Finland



Expert Services



IECEx Certificate of Conformity

Certificate No.: **IECEx EESF 20.0013X**

Page 2 of 5

Date of issue: 2020-05-27

Issue No: 0

Manufacturer: **Neles Finland Oy**
Vanha Porvoontie 229
P.O. Box 304
Vantaa FI-01301
Finland

Additional
manufacturing
locations: **Scanfil OÜ**
Vana Sauga 40
EE-80010 Pärnu
Estonia

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

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:

[FI/EESF/ExTR20.0013/00](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: **IECEx EESF 20.0013X**

Page 3 of 5

Date of issue: 2020-05-27

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Local Control Panels LCP9HL and LCP9HWL are intended for local control of emergency isolation valve. The LCP indicate statuses of safety valve and VG9000H valve controller. The LCP features a TRIP push-button for driving the valve to a safety position, RESET button for returning the valve to normal position and TEST button for starting or cancelling a partial stroke test (PST). Interfaces are power supply input interface and a current loop communication interface. The PWR is connected to 4-20 mA HART interface of the VG9000H and the safety system analogue output module (Ex-isolator). The mA loop interface to VG9000H includes TX- and RX point-to-point interfaces. The Suffix Y in the product type marking means special construction, which does not affect the types of protection.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The maximum allowed ambient temperature ranges are:

-20 °C...+65 °C for temperature class T6

-20 °C...+80 °C for temperature class T5

-20 °C...+85 °C for temperature class T4

The permissible ambient temperature range depends on the used configuration. The ambient temperature range is marked on the identification plate.

The certified type does not comply with the dielectric strength requirement for isolation from earth. Instructions shall include necessary information regarding the correct installation.



IECEx Certificate of Conformity

Certificate No.: **IECEx EESF 20.0013X**

Page 4 of 5

Date of issue: 2020-05-27

Issue No: 0

Equipment (continued):

Interface values for Ex ia:

Power Supply:

$U_i = 28 \text{ V}$
 $I_i = 120 \text{ mA}$
 $P_i = 1 \text{ W}$
 $L_i = 313 \text{ }\mu\text{H}$
 $C_i = 33 \text{ nF}$

Tx Current Loop:

$U_o = 8.3 \text{ V}$
 $I_o = 5.8 \text{ mA}$
 $P_o = 12 \text{ mW}$
 $L_o = 50 \text{ mH}$
 $C_o = 3.6 \text{ }\mu\text{F}$

Rx Current Loop:

$U_o = 8.3 \text{ V}$
 $I_o = 12.7 \text{ mA}$
 $P_o = 26 \text{ mW}$
 $L_o = 50 \text{ mH}$
 $C_o = 3.6 \text{ }\mu\text{F}$

Interface values for Ex ic:

Power Supply:

$U_i = 28 \text{ V}$
 $I_i = 120 \text{ mA}$
 $P_i = 1 \text{ W}$
 $L_i = 313 \text{ }\mu\text{H}$
 $C_i = 27,5 \text{ nF}$

Tx Current Loop:

$U_o = 8.3 \text{ V}$
 $I_o = 5.8 \text{ mA}$
 $P_o = 12 \text{ mW}$
 $L_o = 50 \text{ mH}$
 $C_o = 3.6 \text{ }\mu\text{F}$

Rx Current Loop:

$U_o = 6.5 \text{ V}$
 $I_o = 1.8 \text{ mA}$
 $P_o = 3 \text{ mW}$
 $L_o = 50 \text{ mH}$
 $C_o = 162 \text{ }\mu\text{F}$



IECEx Certificate of Conformity

Certificate No.: **IECEx EESF 20.0013X**

Page 5 of 5

Date of issue: 2020-05-27

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Additional information:

Original release of this CoC is IECEx VTT 16.0015X. CB name has been changed from VTT Expert Services to Eurofins Expert Services. Applicant name has been changed from Metso Flow Control to Neles Finland.