



# 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](http://www.iecex.com)

Certificate No.: **IECEX EESF 22.0037X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-02-03

Applicant: **Labkotec Oy**  
Myllyhaantie 6  
FI-33960 PIRKKALA  
Finland

Equipment: **idSET-34 Control Unit for Sensor Alarm System**

Optional accessory: N/A

Type of Protection: **Intrinsically Safe (Associated apparatus with IS output [Ex ia Ga])**

Marking: [Ex ia Ga] IIB  
Ta = -30 °C...+50 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Jenni Hirvelä**

Position:

**Senior Expert**

Signature:  
(for printed version)

Date:  
(for printed version)

2023-02-03

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins Electric & Electronics Finland Oy**  
Kivimiehentie 4  
Espoo FI-02150  
Finland





# IECEX Certificate of Conformity

Certificate No.: **IECEX EESF 22.0037X**

Page 2 of 3

Date of issue: 2023-02-03

Issue No: 0

Manufacturer: **Labkotec Oy**  
Myllyhaantie 6  
FI-33960 PIRKKALA  
**Finland**

Manufacturing  
locations: **Labkotec Oy**  
Myllyhaantie 6  
FI-33960 PIRKKALA  
**Finland**

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/ExTR22.0040/00](#)

Quality Assessment Report:

[FI/EESF/QAR19.0001/02](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX EESF 22.0037X**

Page 3 of 3

Date of issue: 2023-02-03

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Associated apparatus idSET-34 is intended to be installed in to safe area only. The device is intended to be connected to Gas Group IIB level sensor in Zone 0. Four output relays (potential-free relay contact outputs 250 V, 5 A, 100 VA) are intended for control devices installed in safe area. The device is normally used to indicate surface level locally at safe area. The device is supplied from the mains voltage 230 VAC or 115 VAC.

The maximum values of IS output values with level of protection [Ex ia Ga] are:

$$U_o = 14.5 \text{ V}$$

$$I_o = 78 \text{ mA}$$

$$P_o = 367 \text{ mW}$$

$$R_i = 243 \ \Omega$$

The output is trapezoidal ( $U_Q = 18,9 \text{ V}$ )

Maximum external standalone capacitance and inductance values are:

$$C_o = 4 \ \mu\text{F} \text{ and } L_o = 15.0 \text{ mH}$$

Combined  $L_o + C_o$  values are:

$C_o$ :	$L_o$ :
1.2 $\mu\text{F}$	1.0 mH
1.1 $\mu\text{F}$	3.0 mH
1.0 $\mu\text{F}$	5.0 mH

## SPECIFIC CONDITIONS OF USE: YES as shown below:

Allowed ambient temperature range is  $T_{amb} -30 \text{ }^\circ\text{C} \dots +50 \text{ }^\circ\text{C}$