



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 24.0041X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2024-12-02\)](#)
Date of Issue: 2025-05-08
Applicant: **Labkotec Oy**
Myllyhaantie 6
FI-33960 PIRKKALA
Finland
Equipment: **Level sensor idSET-SLU**
Optional accessory: N/A
Type of Protection: **Intrinsically Safe**
Marking: Ex ia IIB T5 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:
(for printed version)

2025-05-08

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





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

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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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/ExTR24.0047/01](#)

Quality Assessment Report:

[FI/EESF/QAR19.0001/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

idSET-SLU is an ultrasonic based sludge or sand sensing probe. The probe is equipped with a permanently connected cable with a maximum length of 35 m. The sensor elements are protected with polypropylene plastic. The cable length may be extended with a junction box or a cable joint. The probe shall be connected to an intrinsically safe circuit.

Electrical ratings

The maximum input values of the intrinsically safe circuit are (35 m cable included):

$U_i = 16 \text{ V}$ $I_i = 80 \text{ mA}$ $P_i = 400 \text{ mW}$ $C_i \leq 6.5 \text{ nF}$ $L_i \leq 1.6 \text{ mH}$

The nominal voltage of the probe is $U_n = 8 \dots 16 \text{ V}$.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The allowed ambient temperature range is $-25 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$.
2. The cable shall be installed according to the manufacturer's instructions



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor change, additional weight for submerging added.