

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. EU-Type Examination Certificate Number: **EESF 24 ATEX 032X Issue 1**
4. Product: **Level sensor**
Certified types: **idSET-SLU**
5. Manufacturer: **Labkotec Oy**
6. Address: **Myllyhaantie 6, FI-33960 Pirkkala, Finland**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Electric & Electronics Finland Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. EUFI29-25001845-T1.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018+A11:2024 IEC 60079-11:2023
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:

**II 1G Ex ia IIB T5 Ga**

Espoo, 8.5.2025
Eurofins Electric & Electronics Finland Oy

Jenni Hirvelä
Senior Expert

Kari Koskela
Senior Expert

This document is digitally signed.



13. **Schedule**
14. **EU-Type Examination Certificate EESF 24 ATEX 032X Issue 1**

15. **Description of Product**

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 $U_n = 8 \dots 16 \text{ V}$.

16. **Report Number**

EUF129-25001845-T1

17. **Specific Conditions of Use**

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.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report.

20. **Certificate History**

Issue	Date	Report No.	Comment
EESF 24 ATEX 032X	2.12.2024	EUF129-24003087-T1	Prime certificate
Issue 1	8.5.2025	EUF129-25001845-T1	Minor change, additional weight for submerging added.