



# 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.:	<b>IECEx EESF 19.0003X</b>	Page 1 of 5	<u>Certificate history:</u> Issue 0 (2019-03-27)
Status:	<b>Current</b>	Issue No: 1	
Date of Issue:	2021-01-11		
Applicant:	<b>Labkotec Oy</b> Myllyhaantie 6 FI-33960 Pirkkala Finland		
Equipment:	<b>idOil-SLU</b>		
Optional accessory:	n/a		
Type of Protection:	<b>Intrinsically safe</b>		
Marking:	Ex ia IIB T5 Ga		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ilkka Riihimäki**

Position:

**Senior Expert**

Signature:  
(for printed version)

2021-01-11

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



Certificate issued by:

**Eurofins Expert Services Oy**  
Kivimiehentie 4  
FI-02150 Espoo  
Finland

 **eurofins** | Expert Services



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Manufacturer: **Labkotec Oy**  
Myllyhaantie 6  
FI-33960 Pirkkala  
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 60079-0:2017** 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/ExTR19.0003/01](#)

Quality Assessment Report:

[FI/EESF/QAR19.0001/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

idOil-SLU is an ultrasonic based sludge or sand sensing probe. The probe is equipped with a permanently connected cable with a maximum length of 15 m. The probe is of robust construction. The enclosure is of AISI-316 and polypropylene plastic. The maximum input values of the intrinsically safe circuit are (with 15 m cable):

**Ui = 16 V**

**Ii = 80 mA**

**Pi = 400 mW**

**Ci ≤ 4.0 nF**

**Li ≤ 1.6 mH**

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

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

The allowed ambient temperature range is  $-25 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$ .

The probe is equipped with a permanent connected cable without connector.

The cable shall be installed according to the manufacturer's instructions.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Alternative piezo elements introduced.



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**Additional information:**

IECEx VTT 17.0004X: Prime certificate

IECEx EESF 19.0003X: NB name changed from VTT Expert Services to Eurofins Expert Services. New certificate template. Safety related component changes. Alternative PCB introduced. Documents updated accordingly.