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 CML 23.0044X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2023-06-16

Applicant: **Darcy Products Limited**
Brook House
Larkfield Trading Estate
New Hythe Lane
Aylesford
Kent ME20 6GN
United Kingdom

Equipment: **PP/DGP-1 Capacitive FOG Probe**

Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

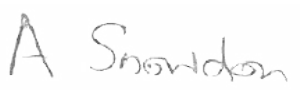
Marking: Ex ia IIB T4 Ga

-20°C≤Ta≤+50°C

Approved for issue on behalf of the IECEx Certification Body: **A Snowdon**

Position: **Certification Manager**

Signature: (for printed version)



Date: (for printed version) 2023-06-16

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **Darcy Products Limited**
Brook House
Larkfield Trading Estate
New Hythe Lane
Aylesford
Kent ME20 6GN
United Kingdom

Manufacturing locations: **Darcy Products Ltd**
1 Hickmans Road
West Float
Wallasey CH41 1JH
United Kingdom

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:

GB/CML/ExTR23.0058/00

Quality Assessment Report:

GB/BAS/QAR11.0010/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The PP/DGP-1 Capacitive FOG Probe is an intrinsically safe sensor for the detection of fat, oil, and grease. It comprises an encapsulated circuit board mounted within a cylindrical enclosure, an external probe, and an integral cable.

See Annex for full details.

SPECIFIC CONDITIONS OF USE: YES as shown below:
See Annex for Specific Conditions of Use.

Annex:

IECEx CML 23.0044X Annex Issue 0.pdf

Annexe to:	IECEx CML 23.0044X, Issue 0
Applicant:	Darcy Products Ltd.
Apparatus:	PP/DGP-1 Capacitive FOG Probe

Description

The PP/DGP-1 Capacitive FOG Probe is an intrinsically safe sensor for the detection of fat, oil, and grease. It comprises an encapsulated circuit board mounted within a cylindrical enclosure, an external probe, and an integral cable.

Intrinsic safety is achieved by limiting energy storage and discharge, and by connecting to the non-hazardous area via a bespoke intrinsically safe interface.

The equipment has the following safety description:

Ui	=	8.2V
Ii	=	110mA
Pi	=	225mW
Ci	=	7.1µF
Li	=	60µH

Conditions of Manufacture

None.

Specific Conditions of Use

The following relates to the safe installation and/or use of the equipment:

i. The equipment is not capable of withstanding the 500V insulation test required by Clause 6.3.12 of IEC 60079-11. This shall be taken into account when installing the equipment.

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