



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 19.0066X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-10-02

Applicant: **Barksdale, Inc.**
3211 Fruitland Ave
Los Angeles
California 90058
United States of America

Equipment: **Pressure Transmitter types H455E and 455E**

Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
IP66 & IP67
-40°C ≤ Tamb ≤ +80°C

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2019-10-02

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





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Certificate No.: **IECEx CML 19.0066X**

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Date of issue: 2019-10-02

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Manufacturer: **Barksdale, Inc.**
3211 Fruitland Ave
Los Angeles
California 90058
United States of America

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:

[GB/CML/ExTR19.0092/00](#)

Quality Assessment Report:

[FR/LCI/QAR08.0004/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Pressure Transmitter types H455E and 455E are intrinsically safe pressure transmitters suitable for use in environments requiring equipment protection level Ga or Da. The equipment comprises a pressure sensor and electronic assembly within a sealed stainless-steel enclosure. A single electrical connection is provided for connection to a 4-20mA loop.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

Annex to [IECEx CML 19.0066X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 19.0066X Issue 0
Applicant: Barksdale, Inc.
Apparatus: Pressure Transmitter types H455E and 455E



Description

The Pressure Transmitter types H455E and 455E are intrinsically safe pressure transmitters suitable for use in environments requiring equipment protection level Ga or Da. The equipment comprises a pressure sensor and electronic assembly within a sealed stainless-steel enclosure. A single electrical connection is provided for connection to a 4-20mA loop.

The equipment may be supplied with flying leads or with a variety of two-part connector types and there are numerous available options for different pressure ranges, units, and process connections.

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

The equipment has the following safety description:

U_i	=	30 V
I_i	=	100 mA
P_i	=	0.75 W
C_i	=	2.2 nF
L_i	=	30 μ H

Conditions of Manufacture

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

Specific Conditions of Use

The following relate to the safe installation and use of the equipment:

- i. The equipment is not capable of withstanding the 500V insulation test required by Clause 6.3.13 of IEC/EN 60079-11:2011. This shall be taken into account when installing the equipment.

Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ

T +44 (0) 151 559 1160
E info@cmlex.com

www.cmlex.com

Company Reg No. 8554022 VAT No. GB163023642

