



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx UL 13.0069 Issue No: 0 Certificate history:  
Issue No. 0 (2014-03-31)

Status: **Current** Page 1 of 3

Date of Issue: **2014-03-31**

Applicant: **BARKSDALE**  
3211 Fuitland Avenue  
Los Angeles 90058-0043 CA  
United States of America  
**United States of America**

Electrical Apparatus: **Pressure Transmitter, Model 445**  
*Optional accessory:*

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

Marking:  
Ex ia IIC T4 Ga  
Ex ia IIIC T135C Da

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

Paul T. Kelly

*Position:*

Principal Engineer, Global Hazardous Location

*Signature:  
(for printed version)*

*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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **BARKSDALE**  
3211 Fuitland Avenue  
Los Angeles 90058-0043 CA  
United States of America  
**United States of America**

Additional Manufacturing  
location(s):

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 electrical apparatus 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:

|   |   |
|---|---|
| <b>IEC 60079-0 : 2011</b><br>Edition:6.0  | Explosive atmospheres - Part 0: General requirements                                |
| <b>IEC 60079-11 : 2011</b><br>Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"       |
| <b>IEC 60079-26 : 2006</b><br>Edition:2   | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga |

*This Certificate **does not** indicate compliance with electrical 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:

[US/UL/ExTR13.0072/00](#)

Quality Assessment Report:

[FR/LCI/QAR08.0004/04](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Pressure Transmitter, Model 445. These transmitters provide two wire 4-20mA current output signals in response to changes in system pressure.

See Annex for additional details.

**CONDITIONS OF CERTIFICATION: NO**

### Annex:

[Annex to IECEx UL 13.0069X.pdf](#)

## **Annex to IECEx UL 13.0069**

Nomenclature:

445 - H3 - E - 01 - Z15 - P1 - Q

I    II    III    IV    V    VI    VII

### I - Model Designation

445 - 4-20 mA version

### II - Connector Type

H3 - Cable Connector

H5 - Threaded Conduit

T4 - 12 mm DIN Connector

### III - Adjusters

E - Adjustable zero and span option

Blank - No adjustable zero and span option

### IV - Pressure Range

01 - 0-15 psi

03 - 0-50 psi

04 - 0-100 psi

05 - 0-150 psi

06 - 0-200 psi

07 - 0-300 psi

08 - 0-500 psi

10 - 0-1000 psi

11 - 0-1500 psi

12 - 0-2000 psi

13 - 0-3000 psi

14 - 0-4000 psi

15 - 0-5000 psi

16 - 0-6000 psi

17 - 0-7500 psi

18 - 0-10,000 psi

19 - 0-600 psi

21 - 0-30 psi

22 - 0-60 psi

23 - 0-29.9 psi in Hg (vacuum)

25 - 0-5 psi

#### V - Modifications

Z15 - Calibration in bar

Z17 – High Pressure models (>1000psi) with larger 3.16 diameter pressure port orifice, with no surge protector.

W - Nonstandard cable length. Following number indicates length in inches.

ZXXY - Nonstandard pressure range (10,000 psi max)

XX = Significant digits; Y = Number of zeros

#### VI - Pressure Port Fitting Thread Options

P1-P10 - Optional thread forms per customer requests

Blank - 1/4 NPT male

#### VII – Options

Q1-Q999 - Special requests not affecting Intrinsic Safety elements