

EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3]

EC-Type Examination Certificate Number: **DEMKO 04 ATEX 0334369X Rev. 0**

[4]

Equipment or Protective System: **Flameproof Pressure Transducer, Model 425X**

[5]

Manufacturer: **Barksdale Inc.**

[6]

Address: **3211 Fruitland Ave, Los Angeles, CA 90058 USA**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems 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. **13NK04527**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-1:2007

EN 60079-31:2009

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.

These are not covered by the certificate.

[12]

The marking of the equipment or protective system shall include the following:

II 2 G Ex d IIC 91°C (T5) Gb

II 2 D Ex tb IIIC T100°C Db IP66

Certification Manager

Jan-Erik Storgaard

Notified Body

This is to certify that the sample(s) of the Product(s) described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2004-10-21

Re-issued: 2013-07-16

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Schedule

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DEMKO 04 ATEX 0334369X Rev. 0

Report: 13NK04527

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Description of Equipment or protective system

Model 425X Flameproof Pressure Transducer consists of pressure sensing elements mounted inside a stainless steel enclosure. The pressure element is welded to the body and comes in three basic sizes for high, medium, and low pressure ranges. The device has a 1/2 in. -14 NPT hub through which the cable lead passes.

Nomenclature							
425X	01	P1	Z15	Q1	S		
I	II	III	IV	V	VI		

I – Model Designation

II – 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	0-10000 PSI
19	0-600 PSI
21	0-30 PSI
22	0-60 PSI
23	0-29.9 PSI in Hg (Vacuum)
24	0-2500 PSI
25	0-5 PSI

III – Pressure Port Fitting Thread Options

P1-P12	Optional thread forms per customer requests
Blank	1/4 in. NPT

IV – Modifications

Z15	Calibration in bar
Z17	No pressure port snubber
W	Non-standard cable length in inches
ZXXY	Non-standard pressure range (10000 PSI maximum)
	XX = Significant digits; Y = Number of zeros

V – Options

Q1-Q999	Special requests not affecting flameproof safety elements
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VI – Options

S	IEC 61000-4-5, Level 4, 4 Kv Surge Immunity
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Temperature range

The ambient temperature range is -40 °C to +85 °C.

Electrical data

30V dc, 4-20 mA

Installation instructions

See below under 'Special Conditions for Safe Use'.

Routine tests

According to EN 60079-1, each enclosure shall be subjected to a routine overpressure test of 2000 kPa. There shall be no permanent deformation or damage to the enclosure



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Schedule

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Report No.
Project Report No.: 13NK04527 (Hazardous Location Testing)

Documents:

Description:

Drawing No.:

Rev. Level:

Date:

Pressure Transmitter	425X	S	2013-05-07
Assembly Drawing	981361	B	2007-02-09
Cover	211261	AC	2012-11-05
Housing	227372	Y	2012-11-05
Sensor Assembly Low	371M343	E	2013-05-06
Sensor Assembly Medium	371M344	E	2013-05-06
Sensor Assembly High	371M345	E	2013-05-06
Sensor Assembly Absolute	371M375	D	2013-05-06
Body, Low/Medium	201728	V	2013-01-09
Body, High	201729	V	2011-04-11
Body, -P4 Low/Medium	201750	V	2013-01-09
Body, -P4 High	201751	W	2013-05-06
Body, -P5 Low/Medium	201752	V	2013-05-06
Body, -P5 High	201753	W	2013-05-06
Body, -P6 Low/Medium	201754	W	2013-01-09
Body, -P6 High	201755	W	2013-05-06
Body, -P1 Low/Medium	201819	E	2013-01-09
Body, -P1 High	201820	D	2013-05-06
Body, -P3 Low/Medium	201821	C	2013-01-09
Body, -P3 High	201822	D	2013-05-06
Nameplate, Single Seal	250922	C	2013-04-16
Nameplate – w/o Single Seal wording	2501069	B	2013-05-07
Installation Instruction	272185	B	2013-07-03

[17]

Special conditions for safe use:

- X indicates the need for appropriate connection of the free end of permanently connected cable.
- An ATEX certified stopping box with all of the following ratings must be connected to the cable side of the device:
 - Ex 'd' IIC
 - Ex 'tb' IIIC
 - IP66

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The Model 425X pressure transducer has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN 60529:1991 + A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

