

# EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2216X Rev. 0**

[4]

Product: **Differential Pressure Switches, Series 1950G**

[5]

Manufacturer: **Dwyer Instruments, Inc.**

[6]

Address: **102 Indiana Highway 212 Michigan City, IN, 46360 USA**

[7]

This product 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 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. **4788945777.2.1**

[9]

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

**EN IEC 60079-0:2018      EN 60079-1: 2014**

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

**Ex II 2 G      Ex db IIB + H<sub>2</sub> T6 Gb**

## Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product 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:** 2019-07-25



## Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

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## Schedule

[14]

# EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 19 ATEX 2215X Rev. 0

[15]

### Description of Product

The series 1950G Differential Pressure Switches allow for the operation of a switch through means of an internal diaphragm. During operation, the differential pressure causes the displacement of the diaphragm, which in turn magnetically operates the switch.

### Nomenclature:

$\frac{1950G}{I} - \frac{00}{II} - \frac{B}{III} - \frac{120}{IV}$

I – Basic Series Designation

1950G – 1950G Pressure Switch

II – Pressure Range Designation

00 – 0.07 to 0.15 In. WC

0 – 0.15 to 0.5 In. WC

1 – 0.4 to 1.6 In. WC

5 – 1.4 to 5.5 In. WC

10 – 3 to 11 In. WC

20 – 4 to 20 In. WC

III – Diaphragm and O-Ring Material Designation

B – Buna N

N – Neoprene

S – Silicone

V – Fluoroelastomer

F – Fluorosilicone

IV – Input Voltage Supply

24 – 24VDC

120 – 120VAC

240 – 240VAC

Temperature range

The ambient temperature range is -XX °C to +60 °C, where XX is the minimum ambient temperature and is based on the material of the O-Ring/Diaphragm as detailed in the table below:

O-Ring/Diaphragm Material	Lower ambient temperature
Buna-N Neoprene	-17°C
Silicone Fluorosilicone	-40°C
Fluoroelastomer	-1°C

### Electrical data

Supply: 24 Vdc, 120 Vac or 240 Vac ± 10%

Relay Contacts: 10A – 120/240 Vac, 28 Vdc

Resistive 50mA – 125 Vdc

### Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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### Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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### Specific conditions of use:

- The cover bolts have a minimum property class of 10.9.
- Repairs to the flamepaths are only to be performed by Dwyer Instruments, Inc.

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### Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

### Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.