



# 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](http://www.iecex.com)

Certificate No.: **IECEx UL 08.0017X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 12

Issue 11 (2021-11-11)  
Issue 10 (2021-03-22)  
Issue 9 (2019-04-10)  
Issue 8 (2017-05-26)  
Issue 7 (2017-01-31)  
Issue 6 (2016-06-20)  
Issue 5 (2016-04-05)  
Issue 4 (2015-10-30)  
Issue 3 (2015-06-18)  
Issue 2 (2014-06-27)

Date of Issue: 2024-01-31

Applicant: **United Electric Controls**  
180 Dexter Avenue  
Watertown, MA 02471  
**United States of America**

Equipment: **One Series Electronic Pressure and Temperature Switches, Series 2X2D, 2SLP, 2X3A, 2X4D, 2XLP, 4X3A, 8X2D, 1XSWLL, 1XTXSW, 1XTX00, 1XSWHL, 1XSWHH\***

Optional accessory:

Type of Protection: **Flameproof "db", Intrinsic safety "ia", Non-sparking "nA" and Dust Ignition Protection by Enclosure "tb"**

Marking: **Series 2X2D, 2SLP, 2X3A, 2X4D, 2XLP, 4X3A, 8X2D:**

Ex db IIC T3/T5 Gb (T3 for pressure sensor models P06-P16 only)

Ex tb IIIC T90°C Db IP66

**Series 1XSWLL:**

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ex db IIC T3/T5 Gb (T3 for pressure sensor models P06-P16 only)

Ex tb IIIC T90°C Db

Ex nA IIC T4 Gc

**Series 1XTXSW, 1XTX00:**

Ex db IIC T3/T5 Gb (T3 for pressure sensor models P06-P16 only)

Ex tb IIIC T90°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

2024-01-31

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL Solutions (US)**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
**United States of America**





# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 08.0017X**

Page 2 of 5

Date of issue: 2024-01-31

Issue No: 12

Ex nA IIC T4 Gc

**Series 1XSWHL, 1XSWHH:**

Ex db IIC T3/T5 Gb (T3 for pressure sensor models P06-P16 only)

Ex tb IIIC T90°C Db

Ex nA IIC T4 Gc

**1XSWLL, 2X2D, 2X3A, 2X4D:**

-40°C to +85°C

**1XTXSW, 1XTX00, 2XLP, 8X2D, 1XSWHL, 1XSWHH:**

-40°C to +80°C

**4X3A, 2SLP:**

-40°C to +70°C



# IECEX Certificate of Conformity

Certificate No.: **IECEX UL 08.0017X**

Page 3 of 5

Date of issue: 2024-01-31

Issue No: 12

Manufacturer: **United Electric Controls**  
180 Dexter Avenue  
Watertown, MA 02471  
**United States of America**

Manufacturing locations: **United Electric Controls**  
180 Dexter Avenue  
Watertown, MA 02471  
**United States of America**

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 Reports:

[US/UL/ExTR08.0022/00](#)  
[US/UL/ExTR08.0022/03](#)  
[US/UL/ExTR08.0022/06](#)  
[US/UL/ExTR08.0022/09](#)  
[US/UL/ExTR08.0022/12](#)

[US/UL/ExTR08.0022/01](#)  
[US/UL/ExTR08.0022/04](#)  
[US/UL/ExTR08.0022/07](#)  
[US/UL/ExTR08.0022/10](#)

[US/UL/ExTR08.0022/02](#)  
[US/UL/ExTR08.0022/05](#)  
[US/UL/ExTR08.0022/08](#)  
[US/UL/ExTR08.0022/11](#)

### Quality Assessment Report:

[US/UL/QAR07.0002/13](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 08.0017X**

Page 4 of 5

Date of issue: 2024-01-31

Issue No: 12

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The devices are pressure and temperature operated switches, with a solid-state switch mechanism, an LCD (Liquid Crystal Display), a flameproof enclosure and may contain solid-state analog outputs. The metal enclosure consists of a base and a cover with a glass window, as well as two conduit entries and a sensor port. The cover is secured to the base by a threaded joint. The window is cemented into the cover and additionally secured by a retaining ring that threads into the cover. The sensors engage the base of the enclosure by a threaded joint. The devices are provided with terminal blocks for field installation.

The 1XSWLL Model is the only model to have "db", "ia", "tb" and "nA" approvals.

**Please see Annex for additional information.**

## SPECIFIC CONDITIONS OF USE: YES as shown below:

Flameproof and Dust-Ignition Proof ("db" and "tb")

- Field wiring must be rated 105°C minimum. For ambient temperatures below -10°C, use suitable field wiring.
- Blanking elements from factory have been tested for flameproof "d" and dust "tb" with the enclosure as an assembly and carry no markings.
- A suitable thermowell made from corrosion-resistant material and engaging 5 threads minimum (with thread sealant) is required for the local spring loaded temperature sensor to maintain IP66.
- User installed temperature sensors must be certified to flameproof "d" and dust "tb" requirements for the same groups and ambient temperature range, made from a corrosion resistant material, and engage 5 threads min with grease required on threads. This Certificate applies to the device described herein only and does not cover the user installed temperature sensor.
- Flameproof joint and gap details:
  - Enclosure to cover threaded joint: 4"-16 UN-2, 7 threads engaged minimum.
  - Glass to cover cemented joint: 0.753" (19.1 mm) rabbet/spigot minimum length
  - Breather element threaded joint: M8-1.25 (6g/6H medium fit class), 11 threads engaged minimum
  - Electrical conduit threaded joint: ¾"-14 NPT, 5 threads engaged minimum
  - Enclosure to sensor threaded joint:
    - Pressure models: 1"-20 UNEF-2, 10 threads engaged minimum
    - Temperature models: ½"-14 NPT, 5 threads engaged minimum
    - Remote and local spring loaded temperature sensor gap joints: 0.0045" (0.114 mm) maximum annular gap by 1.25" (31.8 mm) minimum length
- The device must be cleaned with a damp cloth to avoid static discharge.
- Dual Seal Adaptor Option
  - Threaded Dual Seal Adaptor Option Enclosure to One Series Enclosure : 1"-20 UNEF-2, 10 threads engaged minimum
  - Breather element threaded joint: ¼"-20 UNC-2, 10 threads engaged minimum
  - Secondary Seal Housing to union housing joint: 0.580" (14.73 mm) rabbet/spigot minimum length, maximum annular gap 0.003 in. (0.08 mm).
  - Sensor to union housing joint: 0.580" (14.73 mm) rabbet/spigot minimum length, maximum gap 0.003 in. (0.08 mm).
  - Threaded Dual Seal Adaptor Option to Sensor 1"-20 UNEF-2, 10 threads engaged minimum or ½"-14 NPT 5 threads engaged minimum.

## Intrinsic Safety ("ia")

- Enclosure and cover are made from Aluminum Alloy, do not strike with heavy object.
- Separation distances were assessed to Annex F.
- Device must be powered by a galvanically isolated intrinsic safety barrier.

## Non-sparking ("nA")

- Not Applicable



# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 08.0017X**

Page 5 of 5

Date of issue: 2024-01-31

Issue No: 12

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: A new part number was added, 2SLP Series and an external coating material was added to all models. All models were updated to the most current edition of the standards.

Issue 2: Addition of Dual Seal Adaptor option.

Issue 3: Adding an additional Model 1XSWLL which includes IEC 60079-11 and IEC 60079-15.

Issue 4: Upgrade to latest edition of IEC 60079-1 for all models and addition of Models 1XTXSQ and 1TX00.

Issue 5: Temperature code associated with P06 and P08 pressure sensors was changed due to the sensors being located on the flameproof enclosure with the breather assembly.

Issue 6: Addition of Models 1XSWHL, 1XSWHH, 1XSWHL Dual Seal, and 1XSWHH Dual Seal.

Issue 7: Alternate constructions of the main and relay PC boards, additional components and changes in resistor values.

Issue 8: Added alternate screw.

Issue 9: Component addition for Models 1XSWLL, 1XTXSW, 1TX00, 1XSWHL, 1XSWHH.

Issue 10: Minor update on BOM document and drawing not affecting safety.

Issue 11: Update IEC 60079-0 to the latest edition. Revision does not affect IEC 60079-11, IEC 60079-15 or IEC 60079-31. Minor drawing updates were made as well.

Issue 12: Addition of an alternate construction of the Main PCB for model series 1XSWLL and update of several technical documents.

## **Annex:**

[Annex to IECEx UL 08.0017X Issue 12.pdf](#)



# IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 08.0017X

Issue No.: 12

Page 1 of 13

## TYPE DESIGNATION

### Nomenclature:

|           |           |          |          |          |           |             |
|-----------|-----------|----------|----------|----------|-----------|-------------|
| <u>2X</u> | <u>2D</u> | <u>0</u> | <u>0</u> | <u>P</u> | <u>10</u> | <u>M124</u> |
| I         | II        | III      | IV       | V        | VI        | VII         |

#### I – Series Designation

- 2X – 2-wire switch
- 2S – Safety Transmitter
- 4X – 4-wire switch
- 8X – 8-wire switch

#### II – Input Power

- 2D – 12-30 Vdc (2X Models); 10-30 Vdc (8X Models)
- 4D – 30-50 Vdc (2X Models)
- 3A – 90-130 Vac or Vdc (2X Models); 90-130 Vac (4X Models)
- LP – 10-36 Vdc (2X Models)
- LP – 20-40 Vdc (2S Models)

#### III – Analog Output

- 0 – None
- 4 – 4-20 mA (DC)

#### IV – Switch Output

##### 2X2D Models:

- N – None
- 0 – 12-30 Vdc, 40 mA

##### 2X4D Models:

- N – None
- 0 – 30-50 Vdc, 40mA

##### 2X3A Models:

- N – None
- 0 – 90-130 Vac or Vdc, 100 mA

##### 2XL P Models:

- N – None
- 1 – 0-140 Vac or Vdc, 0.6 A SSR
- 3 – 0-280 Vac or Vdc, 0.3 A SSR

##### 2SLP Models:

- N – None
- 7 – 12 – 240 Vac, 5.0 A



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 2 of 13

8 – 0 – 30 Vdc, 6.0 A

9 – 0 – 130 Vdc, 2.5 A

4X3A Models:

N – None

1 – 24-280 Vac, 10 A SSR

8X2D Models:

N – None

2 – SW1: 75-250 Vac, 1.5 A SSR; SW2: 75-250 Vac, 1.5 A SSR

4 – SW1: 75-250 Vac, 1.5 A SSR; SW2: 0-140 Vac or Vdc, 0.6 A SSR

5 – SW1: 0-140 Vac or Vdc, 0.6 A SSR; SW2: 0-140 Vac or Vdc, 0.6 A SSR

V – Sensor Type

P – Pressure Sensor

T – Temperature Sensor

K – Differential Pressure Sensor

VI – Sensor Model

Pressure Sensors:

06 - -14.7 to 30 psi

08 - 0.8 – 14.7 psi

10 – 0 to 5 psi

11 – 0 to 15 psi

12 – 0 to 30 psi

13 – 0 to 50 psi

14 – 0 to 100 psi

15 – 0 to 300 psi

16 – 0 to 500 psi

17 – 0 to 1000 psi

18 – 0 to 3000 psi

19 – 0 to 4500 psi

20 – 0 to 6000 psi

Temperature Sensors:

L1 – 4 in. Length Local Mount

L2 – 6 in. Length Local Mount

L3 – 10 in. Length Local Mount

R1 – 6 ft. Remote Probe Low Temp

RC – Custom Length Remote Probe Low Temp

H1 – 6 ft. Remote Probe High Temp

HC – Custom Length Remote Probe High Temp

C1 – 6 ft. Remote Probe Low Temp

CC – Custom Length Remote Probe Low Temp



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 3 of 13

TC – Custom Length Thermowell

Ux – User Installed Sensor, where “x” is any alphanumeric character denoting sensor temperature range

Differential Pressure Sensors:

10 – 0 to 5 psid

11 – 0 to 50 psid

12 – 0 to 100 psid

13 – 0 to 200 psid

## VII – Options

M041 or four character alphanumeric code not affecting electrical or mechanical ratings of the device

## Customer Specification Number

The above nomenclature may be replaced by 2X/4X/8X, followed by a five-digit code, corresponding to a configuration per the preceding nomenclature per customer, not affecting maximum electrical ratings or maximum mechanical ratings. Changes to the preceding nomenclature are not allowed, except for new sensor model ranges only, so long as (a) maximum electrical/mechanical ratings as tested are not exceeded and (b) sensor assembly configurations are approved to or above the range specified.

For the 1X Series:

|           |           |          |          |          |           |             |
|-----------|-----------|----------|----------|----------|-----------|-------------|
| <u>1X</u> | <u>SW</u> | <u>L</u> | <u>L</u> | <u>P</u> | <u>10</u> | <u>M124</u> |
| I         | II        | III      | IV       | V        | VI        | VII         |

## I – Series Designation

1X – 2-wire switch

## II – Type

SW – Switch only

## III – Input Voltage (Range)

L – Low Voltage, 7.8 – 50 Vdc

## IV – Input Current

L – Low Current, @ .1 A

## V – Sensor Type

P – Pressure Sensor

T – Temperature Sensor

K – Differential Pressure Sensor

## VI – Sensor Model

Pressure Sensors:



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 4 of 13

06 – 14.7 to 30 psi  
08 – 14.7 to 100 psi  
10 – 0 to 5 psi  
11 – 0 to 15 psi  
12 – 0 to 30 psi  
13 – 0 to 50 psi  
14 – 0 to 100 psi  
15 – 0 to 300 psi  
16 – 0 to 500 psi  
17 – 0 to 1000 psi  
18 – 0 to 3000 psi  
19 – 0 to 4500 psi  
20 – 0 to 6000 psi

#### Temperature Sensors:

L1 – 4 in. Length Local Mount  
L2 – 6 in. Length Local Mount  
L3 – 10 in. Length Local Mount  
R1 – 6 ft. Remote Probe Low Temp  
RC – Custom Length Remote Probe Low Temp  
H1 – 6 ft. Remote Probe High Temp  
HC – Custom Length Remote Probe High Temp  
C1 – 6 ft. Remote Probe Low Temp  
CC – Custom Length Remote Probe Low Temp

#### Differential Pressure Sensors:

10 – 0 to 5 psid  
11 – 0 to 50 psid  
12 – 0 to 100 psid  
13 – 0 to 200 psid

#### VII – Options

M-041 Dual Seal Adapter or Four character alphanumeric code not affecting electrical or mechanical ratings of the device

For the 1XTX series:

|           |           |           |          |           |             |
|-----------|-----------|-----------|----------|-----------|-------------|
| <u>1X</u> | <u>TX</u> | <u>00</u> | <u>P</u> | <u>10</u> | <u>M124</u> |
| I         | II        | III       | IV       | V         | VI          |

I – Series Designation

1X – 2-wire switch

II – Communication



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 5 of 13

---

TX – 4-20 mA Transmitter

## III – Output

SW – Switch Outputs

00 – No Switch Outputs

## IV – Sensor Type

P – Pressure Sensor

T – Temperature Sensor

K – Differential Pressure Sensor

## V – Sensor Model

### Pressure Sensors:

06 – 14.7 to 30 psi

08 – 14.7 to 100 psi

10 – 0 to 5 psi

11 – 0 to 15 psi

12 – 0 to 30 psi

13 – 0 to 50 psi

14 – 0 to 100 psi

15 – 0 to 300 psi

16 – 0 to 500 psi

17 – 0 to 1000 psi

18 – 0 to 3000 psi

19 – 0 to 4500 psi

20 – 0 to 6000 psi

### Temperature Sensors:

L1 – 4 in. Length Local Mount

L2 – 6 in. Length Local Mount

L3 – 10 in. Length Local Mount

R1 – 6 ft. Remote Probe Low Temp

RC – Custom Length Remote Probe Low Temp

H1 – 6 ft. Remote Probe High Temp

HC – Custom Length Remote Probe High Temp

C1 – 6 ft. Remote Probe Low Temp

CC – Custom Length Remote Probe Low Temp

### Differential Pressure Sensors:

10 – 0 to 5 psid

11 – 0 to 50 psid

12 – 0 to 100 psid

13 – 0 to 200 psid



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 6 of 13

## VI – Options

M-041 Dual Seal Adapter or Four character alphanumeric code not affecting electrical or mechanical ratings of the device

For Series 1XSWHL, 1XSWHH:

|           |           |           |          |           |             |
|-----------|-----------|-----------|----------|-----------|-------------|
| <u>1X</u> | <u>SW</u> | <u>HL</u> | <u>P</u> | <u>10</u> | <u>M041</u> |
| I         | II        | III       | IV       | V         | VI          |

## I – Series Designation

1X – 1X Series

## II- Communication

SW – Switch output

## III – Output

HL – 70 – 240 VAC/VDC 10 A max. De-rate 1Ma per 1°C > 25°C

HH – 24 – 280 VAC/VDC 10 A max. De-rate 8% per 10°C > 25°C

## IV – Sensor Type

P – Pressure Sensor

T – Temperature Sensor

K – Differential Pressure Sensor

## V – Sensor Model

Pressure Sensors:

06 – 14.7 to 30 psi

08 – 14.7 to 100 psi

10 – 0 to 5 psi

11 – 0 to 15 psi

12 – 0 to 30 psi

13 – 0 to 50 psi

14 – 0 to 100 psi

15 – 0 to 300 psi

16 – 0 to 500 psi

17 – 0 to 1000 psi

18 – 0 to 3000 psi

19 – 0 to 4500 psi

20 – 0 to 6000 psi

Temperature Sensors:

L1 – 4 in. Length Local Mount

L2 – 6 in. Length Local Mount



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 7 of 13

---

L3 – 10 in. Length Local Mount

R1 – 6 ft. Remote Probe Low Temp

RC – Custom Length Remote Probe Low Temp

H1 – 6 ft. Remote Probe High Temp

HC – Custom Length Remote Probe High Temp

C1 – 6 ft. Remote Probe Low Temp

CC – Custom Length Remote Probe Low Temp

Differential Pressure Sensors:

10 – 0 to 5 psid

11 – 0 to 50 psid

12 – 0 to 100 psid

13 – 0 to 200 psid

VI – Options

M-041 - Dual Seal Adapter

Four character alphanumeric code other than M-041 are single seal. These do not affect electrical or mechanical ratings of the device.



# IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 08.0017X

Issue No.: 12

Page 8 of 13

## PARAMETERS RELATING TO THE SAFETY

| Series                                                                                                                                                                                                                                       | Input Voltage                                                                                                                                          | Switch Output (+)                                                                                                                                      | Analog Output |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2X2D                                                                                                                                                                                                                                         | 12-30 Vdc                                                                                                                                              | 12-30 Vdc, 40mA                                                                                                                                        | N/A           |
| 2X3A                                                                                                                                                                                                                                         | 90-130 Vac or Vdc                                                                                                                                      | 90-130 Vac or Vdc, 100mA                                                                                                                               | N/A           |
| 2X4D                                                                                                                                                                                                                                         | 30-50 Vdc                                                                                                                                              | 30-50 Vdc, 40mA                                                                                                                                        | N/A           |
| 2XLP                                                                                                                                                                                                                                         | 10-36 Vdc                                                                                                                                              | 0-140 Vac or Vdc, 0.6A; or 0-280 Vac or Vdc, 0.3 A                                                                                                     | 4-20mA        |
| 2SLP                                                                                                                                                                                                                                         | 20-40 Vdc                                                                                                                                              | 12-240 Vac, 5.0A; or<br>0 – 30Vdc, 6.0 A; or<br>0 – 130Vdc, 2.5 A                                                                                      | 4-20mA        |
| 4X3A                                                                                                                                                                                                                                         | 90-130 Vac                                                                                                                                             | 24-280Vac, 10 A                                                                                                                                        | N/A           |
| 8X2D                                                                                                                                                                                                                                         | 10-30 Vdc                                                                                                                                              | 0-140Vac or Vdc, 0.6 A; and/or<br>75-250 Vac, 1.5A                                                                                                     | 4-20mA        |
| 1XSWLL                                                                                                                                                                                                                                       | “db” /” nA” (+): 7.8-50Vdc<br>“ia”: $U_i = 12\text{ V}$ ; $I_i = 20\text{ mA}$ ; $P_i = 60\text{ mW}$ , $C_i = 23.1\text{ nF}$ , $L_i = 705\text{ uH}$ | “db” /” nA” (+): 7.8-50Vdc<br>“ia”: $U_i = 12\text{ V}$ ; $I_i = 20\text{ mA}$ ; $P_i = 60\text{ mW}$ , $C_i = 23.1\text{ nF}$ , $L_i = 705\text{ uH}$ | N/A           |
| 1XTX Series                                                                                                                                                                                                                                  | 30 Vdc 20 mA                                                                                                                                           | 0-280 Vac, 300 mA for 1XTXSW<br>No switch outputs for 1XTX00                                                                                           | 4-20 mA       |
| 1XSWHL                                                                                                                                                                                                                                       | N/A (++)                                                                                                                                               | 70-240 V ac/dc, 100 mA                                                                                                                                 | N/A           |
| 1XSWHH                                                                                                                                                                                                                                       | 70-240 Vac, 100 mA                                                                                                                                     | 24-280 V ac, 10 A                                                                                                                                      | N/A           |
| + - Switch current outputs are de-rated, based on ambient temperature, as shown in the “Switch Ratings Table” provided in the Installation Instructions (Drawing No. IM_ONEX, IM_ONE Safety, IM_1XTXSW-01, IM_ONETXSW-04, and IM_1XTXSW-05). |                                                                                                                                                        |                                                                                                                                                        |               |
| ++ - The load from the switch also powers the electronic and does not need a separate power supply.                                                                                                                                          |                                                                                                                                                        |                                                                                                                                                        |               |



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 9 of 13

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

MODELS: 2X2D,2X3A,2X4D,2XLP,8X2D,4X3A

|                                                                               |                                                                                                         |                                                                                    |                                              |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic Switch                  | Part #:                                                                                                 | Op. Range:                                                                         | <b>UE</b><br>United Electric<br>Controls Co. |
|                                                                               | Kanban #:                                                                                               | Max. Over Range:                                                                   |                                              |
|                                                                               | Date Code:                                                                                              | Wetted Materials:                                                                  |                                              |
|                                                                               | Config. #:                                                                                              |                                                                                    |                                              |
| ASSEMBLED IN<br>THE U.S.A.                                                    | E/R:                                                                                                    | TA #:                                                                              |                                              |
|                                                                               |                                                                                                         |                                                                                    |                                              |
| WARNING: ALL<br>CONDUITS MUST<br>BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE | Options:                                                                                                |                                                                                    |                                              |
|                                                                               | Set Point:                                                                                              |                                                                                    |                                              |
|                                                                               | PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS 6,339,373 & 6,522,249                                   |                                                                                    |                                              |
|                                                                               | CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III                               |                                                                                    |                                              |
|                                                                               | CLASS I, ZONE 1 AEx db IIC "T3/T5"; CLASS I, ZONE 1 Ex d IIC "T3/T5"                                    |                                                                                    |                                              |
|                                                                               | Tamb. = "Varies with model" ; ENCLOSURE TYPE 4X; IP66                                                   |                                                                                    |                                              |
|                                                                               | II 2 G Ex db IIC "T3/T5" Gb                                                                             |                                                                                    |                                              |
|                                                                               | II 2 D Ex tb IIC T+90C Db, IP66                                                                         |                                                                                    |                                              |
|                                                                               | DEMKO 09 ATEX 0813748X                                                                                  |                                                                                    |                                              |
|                                                                               | IECEX UL 08.0017X                                                                                       |                                                                                    |                                              |
|                                                                               | Tamb. = "Varies with model"                                                                             |                                                                                    |                                              |
|                                                                               |                                                                                                         |                                                                                    |                                              |
| WARNING: ALL<br>CONDUITS MUST<br>BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE | WARNING: ALL CONDUITS<br>MUST BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE                              |                                                                                    |                                              |
|                                                                               | AVERTISSEMENT: TOUS LES CONDUITS<br>DOIVENT ÊTRE SCELLÉS<br>À L'INTÉRIEUR DE 2<br>POUNCES DE L'ENCEINTE |                                                                                    |                                              |
|                                                                               |                                                                                                         | 180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |                                              |

MODELS: DUAL SEAL 2X2D,2X3A,2X4D,2XLP,8X2D,4X3A

|                                                                               |                                                                                                         |                                                                                    |                                              |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic Switch                  | Part #:                                                                                                 | Op. Range:                                                                         | <b>UE</b><br>United Electric<br>Controls Co. |
|                                                                               | Kanban #:                                                                                               | Max. Over Range:                                                                   |                                              |
|                                                                               | Date Code:                                                                                              | Wetted Materials:                                                                  |                                              |
|                                                                               | Config. #:                                                                                              |                                                                                    |                                              |
| ASSEMBLED IN<br>THE U.S.A.                                                    | E/R:                                                                                                    | TA #:                                                                              |                                              |
|                                                                               |                                                                                                         |                                                                                    |                                              |
| WARNING: ALL<br>CONDUITS MUST<br>BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE | Options:                                                                                                |                                                                                    |                                              |
|                                                                               | Set Point:                                                                                              |                                                                                    |                                              |
|                                                                               | PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS 6,339,373 & 6,522,249                                   |                                                                                    |                                              |
|                                                                               | CLASS I, DIV. 1, GRPS B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III                                  |                                                                                    |                                              |
|                                                                               | CLASS I, ZONE 1 AEx db IIC "T3/T5"; CLASS I, ZONE 1 Ex d IIC "T3/T5"                                    |                                                                                    |                                              |
|                                                                               | Tamb. = "varies with model" ; ENCLOSURE TYPE 4X; IP66                                                   |                                                                                    |                                              |
|                                                                               | II 2 G Ex db IIC "T3/T5" Gb                                                                             |                                                                                    |                                              |
|                                                                               | II 2 D Ex tb IIC T+90C Db, IP66                                                                         |                                                                                    |                                              |
|                                                                               | DEMKO 09 ATEX 0813748X                                                                                  |                                                                                    |                                              |
|                                                                               | IECEX UL 08.0017X                                                                                       |                                                                                    |                                              |
|                                                                               | Tamb. = "varies with model"                                                                             |                                                                                    |                                              |
|                                                                               |                                                                                                         |                                                                                    |                                              |
| WARNING: ALL<br>CONDUITS MUST<br>BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE | WARNING: ALL CONDUITS<br>MUST BE SEALED<br>WITHIN 2 INCHES<br>OF ENCLOSURE                              |                                                                                    |                                              |
|                                                                               | AVERTISSEMENT: TOUS LES CONDUITS<br>DOIVENT ÊTRE SCELLÉS<br>À L'INTÉRIEUR DE 2<br>POUNCES DE L'ENCEINTE |                                                                                    |                                              |
|                                                                               |                                                                                                         | 180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |                                              |



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 10 of 13

MODEL: 2SLP

|                                            |                                                                                                |                   |                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|
| <b>ONE</b><br>SAFETY TRANSMITTER<br>SERIES | Part #:                                                                                        | Op. Range:        | <b>UE</b><br>United Electric Controls Co.                                          |
|                                            | Kanban #:                                                                                      | Max. Over Range:  |                                                                                    |
| ASSEMBLED IN<br>THE U.S.A.                 | Date Code:                                                                                     | Wetted Materials: | 180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                            | Config. #:                                                                                     |                   |                                                                                    |
|                                            | E/R:                                                                                           | TA #:             |                                                                                    |
|                                            | Options:                                                                                       |                   |                                                                                    |
|                                            | Set Point:                                                                                     |                   |                                                                                    |
|                                            | PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS 6,339,373 & 6,522,249                          |                   |                                                                                    |
|                                            | CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III                      |                   |                                                                                    |
|                                            | CLASS I, ZONE 1 AEx db IIC "T3/T5"; CLASS I, ZONE 1 Ex d IIC "T3/T5"                           |                   |                                                                                    |
|                                            | Tamb. = "varies with model"; ENCLOSURE TYPE 4X; IP66                                           |                   |                                                                                    |
|                                            | II 2 G Ex db IIC "T3/T5" Gb                                                                    |                   |                                                                                    |
|                                            | II 2 D Ex tb IIC T+90C Db, IP66                                                                |                   |                                                                                    |
|                                            | DEMKO 09 ATEX 0813748X                                                                         |                   |                                                                                    |
|                                            | IECEX UL 08.0017X                                                                              |                   |                                                                                    |
|                                            | Tamb. = "varies with model"                                                                    |                   |                                                                                    |
|                                            | WARNING: ALL CONDUITS MUST BE SEALED WITHIN 2 INCHES OF ENCLOSURE                              |                   |                                                                                    |
|                                            | AVERTISSEMENT: TOUS LES CONDUITS DOIVENT ETRE SCelles A L'INTERIEUR DE 2 POUNCES DE L'ENCEINTE |                   |                                                                                    |

MODEL: DUAL SEAL 2SLP

|                                                              |                                                                                                |                   |                                                                                    |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|
| <b>ONE</b><br>Explosion Proof<br>Electronic Switch<br>SERIES | Part #:                                                                                        | Op. Range:        | <b>UE</b><br>United Electric Controls Co.                                          |
|                                                              | Kanban #:                                                                                      | Max. Over Range:  |                                                                                    |
| ASSEMBLED IN<br>THE U.S.A.                                   | Date Code:                                                                                     | Wetted Materials: | 180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                              | Config. #:                                                                                     |                   |                                                                                    |
|                                                              | E/R:                                                                                           | TA #:             |                                                                                    |
|                                                              | Options:                                                                                       |                   |                                                                                    |
|                                                              | Set Point:                                                                                     |                   |                                                                                    |
|                                                              | PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS 6,339,373 & 6,522,249                          |                   |                                                                                    |
|                                                              | CLASS I, DIV. 1, GRPS B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III                         |                   |                                                                                    |
|                                                              | CLASS I, ZONE 1 AEx db IIC "T3/T5"; CLASS I, ZONE 1 Ex d IIC "T3/T5"                           |                   |                                                                                    |
|                                                              | Tamb. = "varies with model"; ENCLOSURE TYPE 4X; IP66                                           |                   |                                                                                    |
|                                                              | II 2 G Ex db IIC "T3/T5" Gb                                                                    |                   |                                                                                    |
|                                                              | II 2 D Ex tb IIC T+90C Db, IP66                                                                |                   |                                                                                    |
|                                                              | DEMKO 09 ATEX 0813748X                                                                         |                   |                                                                                    |
|                                                              | IECEX UL 08.0017X                                                                              |                   |                                                                                    |
|                                                              | Tamb. = "varies with model"                                                                    |                   |                                                                                    |
|                                                              | WARNING: ALL CONDUITS MUST BE SEALED WITHIN 2 INCHES OF ENCLOSURE                              |                   |                                                                                    |
|                                                              | AVERTISSEMENT: TOUS LES CONDUITS DOIVENT ETRE SCelles A L'INTERIEUR DE 2 POUNCES DE L'ENCEINTE |                   |                                                                                    |



# IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 08.0017X

Issue No.: 12

Page 11 of 13

MODEL: 1XSWLL

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                |                                                                                                                     |                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br>                                                                                                                                                                                                                                                                                                                            | Part #:<br>Kanban #:<br>Date Code:<br>Config. #:                                                               | Op. Range:<br>Max. Over Range:<br>Wetted Materials:                                                                 | <b>UE</b><br>United Electric<br>Controls Co.<br><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | E/R:                                                                                                           | TA #:                                                                                                               |                                                                                                                                                                                                                           |
| Options:<br>Set Point:                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |                                                                                                                     |                                                                                                                                                                                                                           |
| Applicable for all listings and certificates on this nameplate. I.S., AEx ia, Ex ia when installed per Dep. #A6217464                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                                                                                                     |                                                                                                                                                                                                                           |
| PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS. 6,339,373 & 6,522,249<br>CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III for XP (T5) or I.S. (T4) EXIA<br>CLASS I, ZONE 1 AEx db IIC T5; Ex d IIC T5; CLASS I, ZONE 0 AEx ia IIC T4;<br>Ex ia IIC T4; Tamb. = -40C & Tamb. >+85C; ENCLOSURE TYPE 4X, IP66<br>CLASS I, DIV. 2, GRPS A, B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III<br>CLASS I, ZONE 2, AEx na IIC T4; Tamb. = -40C & Tamb. >+85C; ENCLOSURE TYPE 4X |                                                                                                                |                                                                                                                     |                                                                                                                                                                                                                           |
| <b>CE</b><br>0539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>UL</b><br>LISTED 75 AN<br> | Ex ia IIC T495C Db<br>DEMKO 09 ATEX 0013748X<br>IECEx UL 08.0017X<br>Tamb. = -40C & Tamb. >+85C<br>II 1 G<br>II 1 D |                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>MODEL: 1XSWLL DUAL SEAL</p>                                                                                 |                                                                                                                     |                                                                                                                                                                                                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                  |                                                                                                                     |                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br>                                                                                                                                                                                                                                                                                                                    | Part #:<br>Kanban #:<br>Date Code:<br>Config. #:                                                                 | Op. Range:<br>Max. Over Range:<br>Wetted Materials:                                                                 | <b>UE</b><br>United Electric<br>Controls Co.<br><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E/R:                                                                                                             | TA #:                                                                                                               |                                                                                                                                                                                                                             |
| Options:<br>Set Point:                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                                                                                     |                                                                                                                                                                                                                             |
| Applicable for all listings and certificates on this nameplate. I.S., AEx ia, Ex ia when installed per Dep. #A6217464                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |                                                                                                                     |                                                                                                                                                                                                                             |
| PROCESS CONT. EQ. FOR HAZ. LOC. U.S. PATENT NOS. 6,339,373 & 6,522,249<br>CLASS I, DIV. 1, GRPS B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III for XP (T5) or I.S. (T4) EXIA<br>CLASS I, ZONE 1 AEx db IIC T5; Ex d IIC T5; CLASS I, ZONE 0 AEx ia IIC T4;<br>Ex ia IIC T4; Tamb. = -40C & Tamb. >+85C; ENCLOSURE TYPE 4X, IP66<br>CLASS I, DIV. 2, GRPS B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III<br>CLASS I, ZONE 2, AEx na IIC T4; Tamb. = -40C & Tamb. >+85C; ENCLOSURE TYPE 4X |                                                                                                                  |                                                                                                                     |                                                                                                                                                                                                                             |
| <b>CE</b><br>0539                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>UL</b><br>LISTED 75 AN<br> | Ex ia IIC T495C Db<br>DEMKO 09 ATEX 0013748X<br>IECEx UL 08.0017X<br>Tamb. = -40C & Tamb. >+85C<br>II 1 G<br>II 1 D |                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                  |                                                                                                                     |                                                                                                                                                                                                                             |



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 12 of 13

MODELS: 1XTXSW, 1XTX00

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |                                                     |                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br><br>ASSEMBLED IN<br>THE U.S.A.                                                                                                                                                                                                                                                                         | Part #:<br>Kanban #:<br>Date Code:<br>Config. #: | Op. Range:<br>Max. Over Range:<br>Wetted Materials: | <b>UE</b><br>United Electric<br>Controls Co.<br><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E/R:                                             | TA #:                                               |                                                                                                                                                                                                                           |
| Options:<br>Set Point:                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |                                                     |                                                                                                                                                                                                                           |
| PROCESS CONT. EQ. FOR HAZ. LOC.<br>CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III:<br>CLASS I, ZONE 1 AEx db IIC T3/T3* ; Ex d IIC T3/T3*<br>Tamb. = -40C ≤ Tamb ≤ +80C; ENCLOSURE TYPE 4X, IP66<br><b>CE</b> <b>UL</b> <b>US</b> <b>HART</b><br>LISTED 75 AN U.S. PATENT NOS 6,339,373 & 6,522,249                                                                                                                                              |                                                  |                                                     |                                                                                                                                                                                                                           |
| CLASS I, DIV. 2, GRPS A, B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III:<br>CLASS 1, ZONE 2, AEx nA IIC T4, Ex nA IIC T4, Tamb = -40C ≤ Tamb ≤ +50C, ENCLOSURE TYPE 4X<br><b>CE</b> <b>Ex</b> <b>Ex</b> <b>Ex</b><br>II 2 G Ex db IIC T3/T3* Gb<br>II 2 D Ex db IIC T3/T3* Gb<br>II 2 D DEMKO 09 ATEX 0913746X<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +60C<br>II 3 G Ex nA IIC T4 Gb<br>II 3 D DEMKO 15 ATEX 1483<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +90C |                                                  |                                                     |                                                                                                                                                                                                                           |

MODELS: 1XTXSW, 1XTX00 DUAL SEAL

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                                     |                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br><br>ASSEMBLED IN<br>THE U.S.A.                                                                                                                                                                                                                                                                    | Part #:<br>Kanban #:<br>Date Code:<br>Config. #: | Op. Range:<br>Max. Over Range:<br>Wetted Materials: | <b>UE</b><br>United Electric<br>Controls Co.<br><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | E/R:                                             | TA #:                                               |                                                                                                                                                                                                                             |
| Options:<br>Set Point:                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |                                                     |                                                                                                                                                                                                                             |
| PROCESS CONT. EQ. FOR HAZ. LOC.<br>CLASS I, DIV. 1, GRPS B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III:<br>CLASS I, ZONE 1 AEx db IIC T3/T3* ; Ex d IIC T3/T3*<br>Tamb. = -40C ≤ Tamb ≤ +80C; ENCLOSURE TYPE 4X, IP66<br><b>CE</b> <b>UL</b> <b>US</b> <b>HART</b><br>LISTED 75 AN U.S. PATENT NOS 6,339,373 & 6,522,249                                                                                                                                              |                                                  |                                                     |                                                                                                                                                                                                                             |
| CLASS I, DIV. 2, GRPS B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III:<br>CLASS 1, ZONE 2, AEx nA IIC T4, Ex nA IIC T4, Tamb = -40C ≤ Tamb ≤ +80C, ENCLOSURE TYPE 4X<br><b>CE</b> <b>Ex</b> <b>Ex</b> <b>Ex</b><br>II 2 G Ex db IIC T3/T3* Gb<br>II 2 D Ex db IIC T3/T3* Gb<br>II 2 D DEMKO 09 ATEX 0913746X<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +80C<br>II 3 G Ex nA IIC T4 Gb<br>II 3 D DEMKO 15 ATEX 1483<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +90C |                                                  |                                                     |                                                                                                                                                                                                                             |



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 08.0017X

Issue No.: 12

Page 13 of 13

MODELS: 1XSWHL, 1XSWHH

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br><br><input type="checkbox"/><br>ASSEMBLED IN<br>THE U.S.A.                                                                                                                      | Part #:<br>Kanban #:<br>Date Code:<br>Config. #:                                                                                                                        | Op. Range:<br>Max. Over Range:<br><br>Wetted Materials: | <b>UE</b><br>United Electric<br>Controls Co.<br><br><input type="checkbox"/><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                     | E/R:                                                                                                                                                                    | TA #:                                                   |                                                                                                                                                                    |
| Options:<br>Set Point:                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
| PROCESS CONT. EQ. FOR HAZ. LOC.<br>CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III:<br>CLASS I, ZONE 1 AEx d IIC T3/T5* : Ex d IIC T3/T5*<br>Tamb. = -40C ≤ Tamb ≤ +60C, ENCLOSURE TYPE 4X; IP66<br>U.S. PATENT NOS 6,339,373 & 6,522,249 |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
| LISTED 75 AN                                                                                                                                                                                                                                                        | CLASS I, DIV. 2, GRPS A, B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III:<br>CLASS I, ZONE 2, AEx nA IIC T4, Ex nA IIC T4, Tamb. = -40C ≤ Tamb ≤ +60C, ENCLOSURE TYPE 4X |                                                         |                                                                                                                                                                    |
| <b>CE</b><br>0539                                                                                                                                                                                                                                                   | <b>Ex</b><br>II 2 G<br>II 2 D<br>Tamb. = -40C ≤ Tamb ≤ +60C                                                                                                             | <b>Ex</b><br>II 3 G<br>Tamb. = -40C ≤ Tamb ≤ +60C       | <b>Ex</b><br>Ex d IIC T3/T5* Gb<br>Ex tb IIC T+50C Db, IP66<br>DEMKO 09 ATEX 0913740X<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +60C                           |

MODELS: 1XSWHL, 1XSWHH DUAL SEAL

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ONE</b><br>SERIES<br>Explosion Proof<br>Electronic<br>Transmitter -<br>Switch<br><br><input type="checkbox"/><br>ASSEMBLED IN<br>THE U.S.A.                                                                                                                      | Part #:<br>Kanban #:<br>Date Code:<br>Config. #:                                                                                                                        | Op. Range:<br>Max. Over Range:<br><br>Wetted Materials: | <b>UE</b><br>United Electric<br>Controls Co.<br><br><input type="checkbox"/><br>180 Dexter Ave.<br>Watertown, MA<br>02472 U.S.A.<br>ueonline.com<br>(617) 926-1000 |
|                                                                                                                                                                                                                                                                     | E/R:                                                                                                                                                                    | TA #:                                                   |                                                                                                                                                                    |
| Options:<br>Set Point:                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
| PROCESS CONT. EQ. FOR HAZ. LOC.<br>CLASS I, DIV. 1, GRPS A, B, C, D; CLASS II DIV. 1 GRPS E, F, G; CLASS III:<br>CLASS I, ZONE 1 AEx d IIC T3/T5* : Ex d IIC T3/T5*<br>Tamb. = -40C ≤ Tamb ≤ +60C, ENCLOSURE TYPE 4X; IP66<br>U.S. PATENT NOS 6,339,373 & 6,522,249 |                                                                                                                                                                         |                                                         |                                                                                                                                                                    |
| LISTED 75 AN                                                                                                                                                                                                                                                        | CLASS I, DIV. 2, GRPS A, B, C, D; CLASS II DIV. 2, GRPS F, G; CLASS III:<br>CLASS I, ZONE 2, AEx nA IIC T4, Ex nA IIC T4, Tamb. = -40C ≤ Tamb ≤ +60C, ENCLOSURE TYPE 4X |                                                         |                                                                                                                                                                    |
| <b>CE</b><br>0539                                                                                                                                                                                                                                                   | <b>Ex</b><br>II 2 G<br>II 2 D<br>Tamb. = -40C ≤ Tamb ≤ +60C                                                                                                             | <b>Ex</b><br>II 3 G<br>Tamb. = -40C ≤ Tamb ≤ +60C       | <b>Ex</b><br>Ex d IIC T3/T5* Gb<br>Ex tb IIC T+50C Db, IP66<br>DEMKO 09 ATEX 0913740X<br>IECEX UL 08.0017X<br>Tamb. = -40C ≤ Tamb ≤ +60C                           |

## ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

1. The welds between the fitting and sheath of the local welded temperature sensor and around the pressure connection housing of the pressure sensors must be leak tested in accordance with the manufacturer's procedure G-60.
2. A routine Dielectric Strength Test shall be performed by the manufacturer with the test conditions as follows:
  - 4-20mA circuit to case at 500V for 60 seconds
  - IAW circuit to case at 500V for 60 seconds
  - Switch outputs to case at 1560V for 60 seconds.