

IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CSA 15 0041X Issue No: 0 Certificate history:
Status: Current Page 1 of 4 Issue No 0 (2016-06-24)
Date of Issue: 2016-06-24
Applicant: Conax Technologies LLC
2300 Walden Ave
Buffalo, New York 14225
United States of America
Equipment: Thermocouple Assemblies
Optional accessory:
Type of Protection: Ex nA
Marking: Ex nA IIC Gc T6 to T2
IP66 [Models 10-2806-001 and 10-2809-001 & -002 Terminal Head];
IP4X [Models 10-2807-001 and 10-2808-001 PJ Plug Design]
-20°C ≤ Ta ≤ up to 260°C

Approved for issue on behalf of the IECEx
Certification Body:

Dorin Stochitoiu

Position:

Technical Advisor

Signature:
(for printed version)

Date:

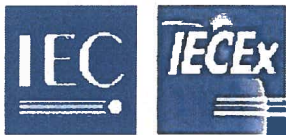
June 24, 2016

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Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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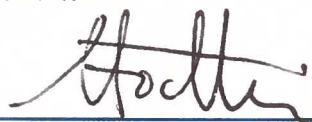
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Manufacturer: **Conax Technologies LLC**
2300 Walden Ave.
Buffalo, New York 14225
United States of America

Additional Manufacturing
location(s)

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report

CA/CSA/ExTR15 0047/00

Quality Assessment Report

CA/CSA/QAR16 0005/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows

Certified Thermocouple Assemblies

1.0 Conax P/N 10-2806-001, "Turbine Outlet Thermocouple Assembly."

1.1 Type "N" calibration, Inconel sheath, ungrounded junctions, triplex, Special Limits of Error, terminating to a screwed-on termination head

1.2 Thermocouple Assembly described in Para. 1.1 is IECEX certified to:

- IECEX nA IIC Gc T6 to T2 with;
- Ambient Temperature: -20°C (-4°F) $\leq T_a \leq$ up to $+260^{\circ}\text{C}$ (500°F);
- Service Temperature at Sensor Tip: $+800^{\circ}\text{C}$ (1472°F);
- Max Accident Temperature: $+1200^{\circ}\text{C}$ (2197°F);
- Pressure Rating: 1.2 bar max
- IP Rating: 66

Ratings: O/P 0 to 50 mV max

2.0 Conax P/N 10-2809-001, -002, "Turbine Health Monitoring Stg 2 Duplex Thermocouple Assembly."

2.1 Type "K" calibration, SST sheath, grounded and ungrounded junctions, duplex, Special Limits of Error, terminating to screwed-on termination head

2.2 Thermocouple Assembly described in Para. 2.1 is IECEX certified to

- IECEX nA IIC Gc T6 to T2 with;
- Ambient Temperature: -20°C (-4°F) $\leq T_a \leq$ up to $+260^{\circ}\text{C}$ (500°F);
- Service Temperature at Sensor Tip: $+500^{\circ}\text{C}$ (932°F);
- Pressure Rating: 30 bar max
- IP Rating: 66

Ratings: O/P 0 to 50 mV max

3.0 Conax P/N 10-2808-001, "Main Duplex Flashback Thermocouple Assembly."

3.1 Type "K" calibration, Inconel sheath, ungrounded junctions, duplex, Special Limits of Error, terminating to dual PJ plug connectors.

3.2 Thermocouple Assembly described in Para. 3.1 is IECEX certified to:

- IECEX nA IIC Gc T6 to T2 with;



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- Ambient Temperature: -20°C (-4°F) $\leq T_a \leq$ up to $+260^{\circ}\text{C}$ (500°F);
- Service Temperature at Sensor Tip: $+1093^{\circ}\text{C}$ (2000°F);
- Pressure Rating: 25 bar max
- IP4X Rating: This thermocouple assembly is certified with "X" Marking, "Special Condition of Use" per IEC 60079-15-2010, Paragraphs 6.3.1 and 7.3.5, respectively
Ratings: O/P 0 to 50 mV max

4.0 Conax P/N 10-2807-001, "Pilot Simplex Flashback Thermocouple Assembly."

4.1 Type "K" calibration, Inconel sheath, ungrounded junctions, simplex, Special Limits of Error, terminating to single PJ plug connector.

4.2 Thermocouple Assembly described in Para 4.1 is IECEx certified to:

- IECEx nA IIC Gc T6 to T2 with;
- Ambient Temperature: -20°C (-4°F) $\leq T_a \leq$ up to $+260^{\circ}\text{C}$ (500°F);
- Service Temperature at Sensor Tip: $+1093^{\circ}\text{C}$ (2000°F);
- Pressure Rating: 25 bar max
- IP4X Rating: This thermocouple assembly is certified with "X" Marking, "Special Condition of Use" per IEC 60079-15-2010, Paragraphs 6.3.1 and 7.3.5, respectively.

Ratings: O/P 0 to 50 mV max

CONDITIONS OF CERTIFICATION: YES as shown below:

Special Condition of Use For Models 10-2807-001 and 10-2808-001 - PJ Plug Design:

"IP4X - For Installation only in locations providing adequate protection against the entry of solid foreign object or water capable of impairing safety"