



# 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 ETL 19.0039X** Page 1 of 3 [Certificate history](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-09-04

Applicant: **Ametek Process & Analytical Instruments**  
150 Freeport Road  
Pittsburgh, PA 15238  
**United States of America**

Equipment: **WDG-V UOP**

Optional accessory:

Type of Protection: **Pressurized Enclosure 'pzc'**

Marking: Ex pzc IIC T3 Gc  
-20°C to +60°C  
IECEx ETL 19.0039X

Approved for issue on behalf of the IECEx  
Certification Body:

**Kevin J. Wolf**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Intertek**  
3933 US Route 11 South  
Cortland NY 13045-2995  
United States of America





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Manufacturer: **Ametek Process & Analytical Instruments**  
150 Freeport Road  
Pittsburgh, PA 15238  
**United States of America**

Additional  
manufacturing  
locations:

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 60079-2:2014-07** Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"  
Edition:6

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 Report:

[US/ETL/ExTR19.0055/00](#)

Quality Assessment Report:

[NO/DNV/QAR10.0007/04](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The AMETEK Model WDG-V UOP is an oxygen analyzer. The oxygen measurement is achieved with a Zirconium Oxide cell heated to 680 deg C. The WDG-V UOP is typically used in petrochemical process to measure the concentrations of oxygen of UOP CCR (Continuous Catalyst Regeneration) platforming process.

The equipment is intended to be permanently installed in a Zone 2 hazardous location and utilizes type pzc (Equipment protection by pressurized enclosure) protection.

Purge system ratings:

- Purge air: clean dry instrument air (-20°C to +60°C, 80 - 120 PSI / 5.5 to 8.3 bar)
- Overpressure: 0.15" H<sub>2</sub>O (0.037 kPa), 0.35" H<sub>2</sub>O max (0.087 kPa)
- Leakage rate: 15 LPM

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

1. Do not open the enclosure unless the power is removed from both sensor and control unit for 90 minutes while maintaining pressurization, or the area is demonstrated to be non-hazardous.
2. Use only appropriate approved conduit fittings or cable glands for cable entry (IIC, IP40 minimum). no holes shall be left unplugged.
3. Internal temperature rises above the rated T-class. The end user must take immediate action on the loss of pressure to reinstate purge.

## Annex:

Annex to [IECEx ETL 19.0039X 0 - Annex.pdf](#)



## Annex to IECEx Certificate of Conformity

<b>Certificate No:</b>	<b>IECEx ETL 19.0039X</b>	<b>Issue No. 0</b>
<b>Annex No. 1</b>		

<b>Technical Documents</b>			
<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
ASSY, SENSOR, WDG-V UP W/ISOLATION VALVES, ATEX IIC	9700-148-VE	A	04-SEP-2019
Thermox ATEX WGD-V UP Essential Health & Safety Requirements	9000-279-VE	D	--

<b>Required Manufacturer Routine Testing</b>		
<b>Test</b>	<b>Title/Description of Test</b>	<b>Standard and Clause</b>
The following tests shall be performed per IEC 60079-2: 2014		
1	Functional test  The performance of safety devices provided with the pressurized enclosure shall be verified (indication upon loss of pressure).	IEC 60079-2: 2014 Clause 17.1
2	Leakage test  The pressure in the pressurized enclosure shall be adjusted to the maximum overpressure specified by the manufacturer for normal service. With the outlet aperture closed, the leakage flow rate shall be measured at the inlet aperture. The leakage rate shall not exceed the equipment leakage rating.	IEC 60079-2: 2014 Clause 17.2

Certificate issued by:

**intertek**  
Total Quality. Assured.

**Intertek Testing Services NA, Inc.**  
3933 US Route 11, Cortland, NY  
13045, USA

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