



IECEX System in support of the Hydrogen Economy

2024 IECEX International Hydrogen Conference -
Singapore

Katy Holdredge, IECEX Vice Chair, Senior Staff Engineer, UL Solutions
May 29, 2024

Safety. Science. Transformation.™

Agenda

1. Equipment, components, assemblies, unit verification certification
2. Service facility certification
3. Personnel certification
4. Process to gain IECEx certificate
5. Value in holding an IECEx certificate

IECEX Certified Equipment Scheme

Equipment, components, assemblies and unit
verification

IECEX Overview

- Started **1996**
- Currently **76** IECEX Approved Certification Bodies offer IECEX Product Certification
- > 80 Test Labs
- >**140,000** Certificates + Reports issued
- Industries that use flammable/combustible materials include:
 - Production, Storage, Dispensing and use of flammable liquids and Gases, such as [Hydrogen, including GH2](#)
 - Transport, eg cars / planes / ships / trucks (Passenger + Freight)
 - Fueling stations and storage facilities
 - Oil and gas exploration and processing
 - Coal mining
 - Food manufacture and processing...



IECEX Product Certificates

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

Certificate No:	IECEX UL 21.011X	Page 1 of 4	Certificate Status:
Issue:	Current	Issue No 6	Current
Date of Issue:	2024-03-13	Issue No 3	Issue No 6
Applicant:	National Instruments Corporation 11000 N. Major Expressway Austin, TX 78759 United States of America		
Equipment:	Modems, Controllers, Backplanes, Chassis, and Peripheral Equipment, Models NI 9235 with DSUB, NI 9235, NI 9242, NI 9250 with BNC TC, NI 9255 with BNC, CR10-8645. See Annex for additional Model and Part No. information.		
Optional accessory:			
Type of Protection:	Increased Safety "m"		
Marking:	Ex ec IIC T4 Gc -40°C ≤ T _a ≤ +15°C -20°C ≤ T _a ≤ +55°C 0°C ≤ T _a ≤ +55°C Please see Annex for additional information.		
Approved for issue on behalf of the IECEx Certification Body:	Katy A. Holdridge Senior Staff Engineer		
Position:			
Signature:			
(As printed version)			
Date:			
(As printed version)			
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3. The date and authenticity of this certificate may be verified by visiting www.iecex.com or use of the QR Code.			
Certificate issued by:	UL Solutions UL LLC 312 Florence Road Northbrook, IL 60062-2866 United States of America		

Ex Equipment

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

EX COMPONENT CERTIFICATE

Certificate No:	IECEX UL 55.0685U	Page 1 of 4	Certificate Status:
Issue:	Current	Issue No 3	Current
Date of Issue:	2024-04-25	Issue No 3	Issue No 3
Applicant:	Schneider Electric Japan Holdings Ltd. 4-4-1 Kojima, Chiyoda-ku Chiyoda-ku, Chiyoda-ku Chiyoda 100-8544 Japan		
Equipment:	Ex Component: Industrial Boxes and Industrial Box accessories, Model SP1 Series		
Optional accessory:	The component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems to use in explosive atmospheres under AEx IIC0/IIcG.		
Type of Protection:	Increased Safety "m"		
Marking:	Ex ec IIC Gc		
Approved for issue on behalf of the IECEx Certification Body:	Lucy Frost Staff Engineer		
Position:			
Signature:			
(As printed version)			
Date:			
(As printed version)			
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2. This certificate is not transferrable and remains the property of the issuing body.			
3. The date and authenticity of this certificate may be verified by visiting www.iecex.com or use of the QR Code.			
Certificate issued by:	UL Solutions UL LLC 312 Florence Road Northbrook, IL 60062-2866 United States of America		

Ex Components

IECEX Certificate of Conformity

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IEC Certification System for Explosive Atmospheres
For rules and details of the IECEx Scheme visit www.iecex.com

Certificate No:	IECEX UL 21.0205X	Page 1 of 4	Certificate Status:
Issue:	Current	Issue No 2	Current
Date of Issue:	2023-08-16	Issue No 2	Issue No 2
Applicant:	Exh Robotics B.V. Elhemweg 1 Strals, 4026 SA Netherlands		
Equipment:	Robot Operator and Docking Station, Exh-2 Robot Operator (Includes Exh-2 Docking Station)		
Optional accessory:			
Type of Protection:	Equipment assemblies		
Marking:	Ex 6007-04-IB T4 Gc -40°C... -20°C to 50°C... 55°C		
Approved for issue on behalf of the IECEx Certification Body:	Eric LaRocco Staff Engineer		
Position:			
Signature:			
(As printed version)			
Date:			
(As printed version)			
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2. This certificate is not transferrable and remains the property of the issuing body.			
3. The date and authenticity of this certificate may be verified by visiting www.iecex.com or use of the QR Code.			
Certificate issued by:	UL Solutions UL LLC 312 Florence Road Northbrook, IL 60062-2866 United States of America		

Assemblies

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

UNIT VERIFICATION

Certificate No:	IECEX UL 55.0632X	Page 1 of 3	Certificate Status:
Issue:	Current	Issue No 0	Current
Date of Issue:	2023-03-12	Issue No 0	Issue No 0
Applicant:	IEEX, Inc. 1 Factory Street West Springfield, MA 01119 United States of America		
Equipment:	Electronic Control Panels, Intrinsic Safety Barrier Panels		
Serial number(s) or Unique Identification:	Serial: 220237-01-01 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-02 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-03 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-04 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-05 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-06 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-07 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-08 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-09 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-10 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-11 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-12 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-13 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-14 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-15 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-16 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-17 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-18 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-19 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-20 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-21 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-22 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-23 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-24 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-25 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-26 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-27 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-28 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-29 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-30 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-31 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-32 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-33 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-34 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-35 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-36 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-37 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-38 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-39 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-40 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-41 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-42 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-43 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-44 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-45 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-46 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-47 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-48 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-49 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-50 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-51 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-52 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-53 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-54 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-55 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-56 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-57 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-58 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-59 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-60 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-61 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-62 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-63 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-64 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-65 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-66 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-67 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-68 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-69 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-70 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-71 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-72 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-73 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-74 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-75 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-76 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-77 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-78 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-79 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-80 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-81 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-82 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-83 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-84 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-85 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-86 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-87 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-88 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-89 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-90 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-91 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-92 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-93 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-94 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-95 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-96 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-97 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-98 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-01-99 Bundle: 024L6ACNPALMYADJNNNNATY0507; Serial: 220237-02-00 Bundle: 024L6ACNPALMYADJNNNNATY0507		
Type of Protection:	Flameproof "d", Intrinsic Safety "i"		
Marking:	Electronic Control Panels: Ex db IIC T4 Gc Intrinsic Safety Barrier Panels: Ex db IIC Gc -20°C ≤ T _a ≤ +55°C		
Approved for issue on behalf of the IECEx Certification Body:	Katy A. Holdridge Senior Staff Engineer		
Position:			
Signature:			
(As printed version)			
Date:			
(As printed version)			
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Unit Verification

International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX System)

Information Publications Members Area Certified & Licenses Meeting & Events Contact Home

IEC e-tech News

A one-stop shop for the safe handling of...
With climate change on everyone's mind, the demand for clean and sustainable...

Hydrogen economy: IECEX helps to minimize...
Today, the chemical and refining industry workers are still the main users...

Oil and gas industry must become more su...
Every industry on the planet is being impacted by climate change and pressure...

From the IEC blog

Latest blog articles about IECEX

Tech is key in the fight against climate change, says IPCC report
Technologies together with suitable measures are essential to meet climate targets. Read more

Keeping hydrogen environments safe and secure
IECEX is supporting the hydrogen economy to ensure the safety and security of us. Read more

IECs: how conformity assessment could prevent greenwashing
IEC conformity assessment could play an important role in helping organizations to avoid. Read more

IE experts receive the Thomas Edison Award
The IEC has presented the Thomas Edison Award to six individuals who have made outstanding. Read more

Ex-perience is key in hazardous areas - new IECEX video
The theme of the first short video issued by IECEX, the IEC System for Certification to St. Read more

International standards and conformity assessment for smart manufacturing
International standards and conformity assessment ensure safety, security and interoperability. Read more

Achieving compliance of Ex equipment: tapping repair and overhaul - new IECEX video
IECEX has issued a new video about its certified facilities scheme. Read more

IEC takes part in IRENA workshop on hydrogen
The Workshop on Quality Infrastructure

Quick Links

- Certification Schemes (IECEX) - Certified Equipment Scheme
- Certification Schemes (IECEX) - Certified Service Facilities
- Certification Schemes (IECEX) - Personal Competence
- Certification Schemes (IECEX) - Conformity Mark Licensing
- IECEX Recognised Training Providers (RTPs)
- IECEX Decision-Making List
- IEC TC21 & IECEX Meeting Schedule
- IECEX Animation Intro to the Certified Equipment Scheme - with subtitles in various languages
- IECEX Animation Introduction to the Certified Service Facility Scheme
- IECEX Animation Introduction to the Personal Competence Scheme

Members Quick Guides

IECEX 02 Rules edition 2.1 (New 2022-12-18)

- IECEX OCS Backoffice - How to access Reports for ExCBs and Assessors
- Implementation of IECEX single logo trademark design - Introduction reference document Ex/MI/193/19/7
- IECEX 018 - Guidance for the use of the IECEX Logo Ed.4.0
- IECEX COVID-19 measures - Ex/MI/1605/INF - Extended Application of IECEX Operational Requirements 00 060 to end December 2020

News and Featured

Member articles originally appeared in Hazardex magazine and are reproduced with kind permission.

IECEX and IHO TC 187/IC1 Formal Liaison "Hydrogen Technologies"

- Hazardex 2023 March IECEX Ron Sinclair, State of the art
- Hazardex 2023 February Thorsten Amhold, An incentive for the constant improvement of standardisation processes
- Hazardex 2023 January IECEX Ron Sinclair, Intrinsic Safety moves forward
- Hazardex 2022 December Thorsten Amhold, An encouraging restart after the pandemic
- Hazardex 2022 November IECEX Ron Sinclair, Some Updates
- Hazardex 2022 October IECEX Thorsten Amhold, IECEX rides the hydrogen wave
- Hazardex 2022 September IECEX Ron Sinclair, Brexit gift and/or
- Hazardex 2022 August IECEX Thorsten Amhold, The New IEC Strategy
- Hazardex 2022 July IECEX Ron Sinclair, The work continues part 2
- Hazardex 2022 May Ron Sinclair, The Work Continues
- Hazardex 2022 April IECEX Thorsten Amhold, No risk, no fun?

IECEX Website Guides

- About IECEX
- IECEX Certificates

IECEX Website www.iecex.com updates / enhancements

Direct access to 3 separate IECEX Animated Videos (also accessible from YouTube):-

1. Certified Equipment Scheme
2. Certified Services Scheme
3. Certified Persons Scheme

Tailored version of the videos available to ExCBs to insert their own logos – many have taken this up

IECEX Website Video Guides on how to use/navigate:

1. The IECEX Website (intended for everyone)
2. The On-Line Certificate System (aimed at those seeking to look up certificates)
3. The On-Line Certificate System – Back Office (mainly for ExCB Staff – how to create/issue CoCs)

IECEX Certified Service Facility Scheme



IECEX Service Facilities

- Selection + Design
- Installation + Initial Inspection
- Inspection + Maintenance
- Repair + Overhaul + Reclamation



		IECEX Facility Assessment Report Summary	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres <small>for rules and details of the IECEX Scheme visit www.ieceex.com</small>			
FAR Ref. No.:	USUL/FAR22.0001/01	Page 1 of 1	
Issuing ExCB:	UL - UL LLC	Date of issue:	2023-09-29
		Status:	Issued
Audit date:	2023-07-18	Valid Until:	2025-07-20
Location(s) audited:	SNR Engineering Services Pte Ltd. 21 Tuas View Place - 637 867 Singapore	Service Facility:	SNR Engineering Services Pte Ltd. 21 Tuas View Place - 637 867 Singapore
Details of change:	Surveillance Audit		
Type of work Covered by Service Facility:	Repair and Overhaul of Motors and Generators		
Related FARs:	USUL/FAR22.0001/00		
Related IECEX Service Facility Certificates:			
Comments:	The scope only covers 'd', 'w', 'n' and 'p' motors/generators. No alterations or modifications are permitted. For 'd', 'w' and 'n' motors/generators the only work to be performed is overhaul, repair, reclamation and rewinding. The rewinding information may be obtained from the CEM or by the copy winding technique. No machining or repair of flamepaths is permitted. No repairs are permitted to rotors.		

IECEX Service Facility Certificates

		IECEX CoC Certified Service Facility	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small>			
Certificate No:	IECEX UL 80011	Page 1 of 1	Certificate history
Status:	Current	Issue No: 0	Issue 0 (2022-09-29)
Date of Issue:	2022-09-29		
Applicant:	SNR Engineering Services Pte Ltd. 21 Tuas View Place - 637 867 Singapore		
Type of Service:	Repair, overhaul, reclamation to IEC 6075-19:2019		
Type of Protection:	Flameproof Enclosure "d", Increased Safety "e", Type of Protection "m"		
Scope of Service:	Repair and Overhaul of Motors and Generators		
Locations covered by this Certificate:	SNR Engineering Services Pte Ltd. 21 Tuas View Place - 637 867 Singapore		
Facility Audit Report:	UL/UL-FAR22.0001-00		
<small>This certificate is issued as verification that the Service Facility and associated locations were assessed and found to comply with the IECEx Scheme requirements relating to the type and scope of service listed above. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.</small>			
Approved for issue on behalf of the IECEx Certification Body:	Katy A. Holdridge		
Position:	Senior Staff Engineer		
Signature: (for printed version)			
Date: (for printed version)			
<small>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 or use of this QR Code.</small>			
Certificate issued by:			
UL LLC			
333 Bittingsen Road Northbrook IL 60062-2096 United States of America			

IECEX Scheme for Certification of Personnel Competence (CoPC)



IECEx CoPC Units of Competence

Reference	Title
Unit Ex 000	Basic knowledge and awareness to enter a site that includes a classified hazardous area
Unit Ex 001	Principles of protection in explosive atmospheres knowledge
...	...
Unit Ex 011	Basic knowledge of the safety of hydrogen systems



IECEX Certification of Personnel Competence

- Dedicated Unit 011 for **Hydrogen Safety** according to ISO/TR 15916

The image displays a screenshot of an IECEx Certificate for Personnel Competence and a corresponding photo ID card. The certificate is issued by the International Electrotechnical Commission (IEC) Certification System for Explosive Atmospheres. The certificate details include:

- Certificate No.:** IECEx CP BAS11.0015
- Issue No.:** 2
- Status:** Current
- Date of Original Issue:** 2011-11-22
- Date of Expiry:** 2015-12-17
- Applicant:** Manggau Galawing
- Scope of Competence:**
 - Ex 001 - Basic principles - Based on various parts of IEC 60079 series
 - Ex 002 - Classification - Based on IEC 60079-10 series
 - Ex 003 - Installation - Based on IEC 60079-14
 - Ex 004 - Maintenance - Based on IEC 60079-19

The photo ID card, issued by UL Solutions, matches the certificate details, including the applicant's name, photo, and the IECEx logo.

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**Ex Competent Person, with
Photo ID Card**

Process to gain IECEx certification



Process for IECEx Product Certification

1

Choose an approved IECEx Ex Certified Body (ExCB) with appropriate scope

2

Submit application materials for ExCB review.

3

Evaluation & testing

4

Quality system assessment

5

Review & IECEx certificate, test report & quality assessment report issuance

6

On-going surveillance

Process for IECEx Service Facility Certification



1

Choose an approved IECEx Ex Certified Body (ExCB) with appropriate scope

2

Submit application materials for ExCB review.

3

Service facility assessment

4

Review & IECEx certificate & facility assessment report issuance

5

On-going surveillance

Process for IECEx Certification of Personnel Competence



1

Choose an approved IECEx
Ex Certified Body (ExCB)
with appropriate scope

2

Submit application materials
for ExCB review

3

Examination,
Written/practical

4

ExCB Review & IECEx
certificate issuance

Value in holding an IECEx certificate



IECEX Value Proposition



Provides assurance to Industry, Commerce, Regulators and Consumers that operations and activities involving flammable and combustible materials can continue safely and reliably, by providing an Internationally Standardized Approach to Testing and Certification, regardless which IECEx Approved Certification Body is used.





IECEX Organization

- Operation within the IEC – Not for Profit
- >100 IECEx Approved Certification Bodies can issue International IECEx Certificates
- Self-funded with annual operating Budget CHF 1.8M / 2.7M in reserves
- Dedicated IECEx WG 19, Application of IECEx to the Hydrogen Economy
- Centralized On-Line Certificates – Free Public Access

IECEX Working Group WG 19



Membership includes AU, BR, CA, CN, FR, DE, HU, IT, JP, KR, UK, US

- Manufacturers
- Users
- Regulators
- Testing and Certification Bodies
- Experts from the Standardization side
 - ISO TC 197
 - IEC TC 31
 - IEC TC 105 – Chair + Secretary



IECEX ExMC WG19 Objective



Extend the harmonized approach of International Testing and Certification to cover IEC and ISO Standards covering Hydrogen Technologies, beyond explosion protection, in support of the H2 economy including GH2



IECEX OD 290

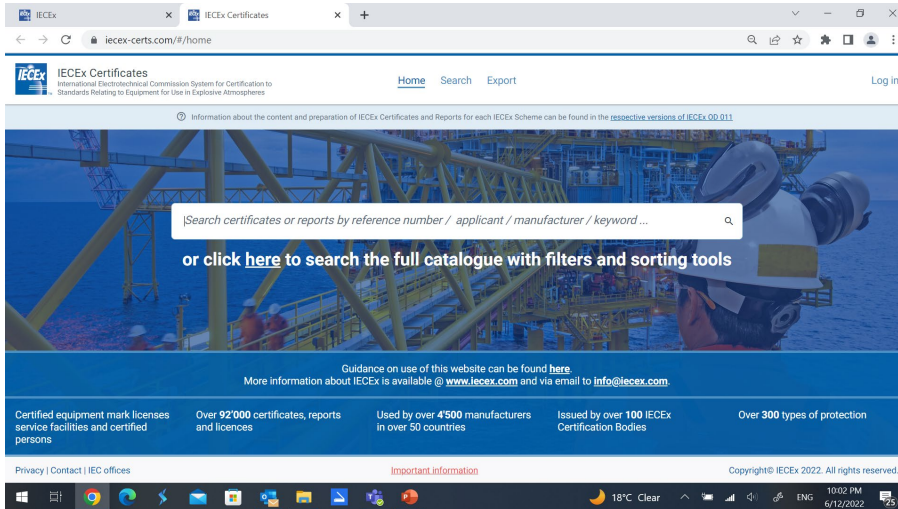
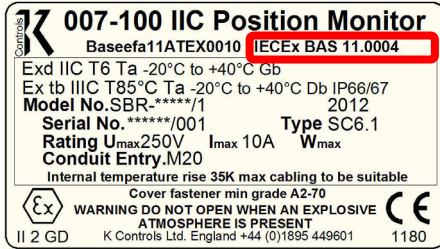
Edition 1.0 2022-11

IECEX OPERATIONAL DOCUMENT

IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX System)

IECEX certified equipment scheme –
Harmonized procedures for IECEx certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen

Verification of IECEx Product Certificates



<https://www.iecex-certs.com/#/deliverables/CERT/3339/view>



Thank you

[UL.com/Solutions](https://www.ul.com/Solutions)

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