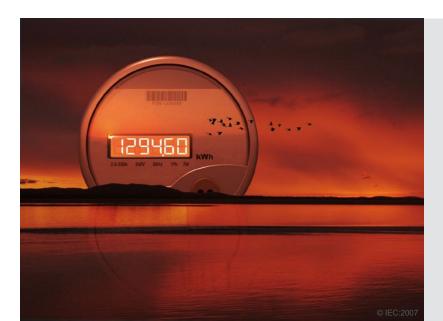


IECEx Conformity Assessment System Schemes



Mr Mark Amos IECEx Secretariat March 2024



Deepwater Horizon oil rig - Gulf of Mexico (2010)





Causes and effect

Causes (8 of) of Deepwater Horizon disaster can be classified as

- Incorrect or inadequate equipment & materials
- Equipment failure
- Inadequate operator skills
- Safety alarm system failure
- Poor maintenance



Which is why IECEx certifies

- Equipment
- People who design, install, inspect, operate, maintain, repair the equipment
- Organisations that use Systems to manage the above processes and employ competent personnel to work on equipment



Life Cycle Coverage





Schemes within the IECEx System

IECEx System



IECEx Equipment Scheme Certification of Ex Equipment









IECEx Conformity Mark License Scheme



IECEx Services Scheme Certification of Ex Service Providers

IECEx Certified Persons

Competency to work in Ex field (New)

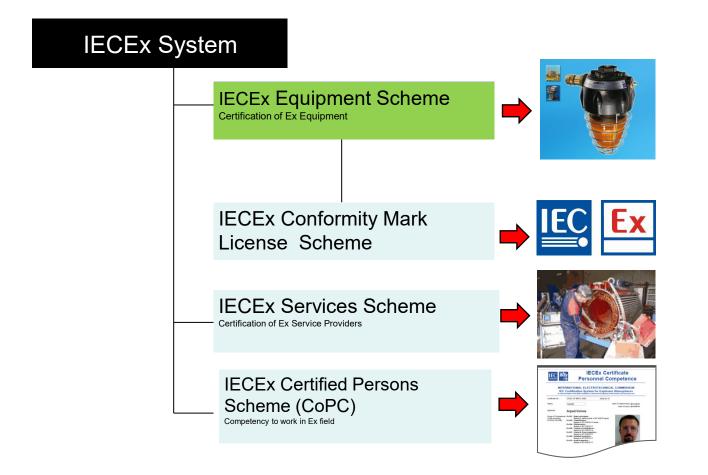
Scheme (CoPC)







Schemes within the IECEx System





IECEx Equipment Scheme

This system provides an:

IECEx Technical Report (ExTR)

IECEx Quality Assessment Report (QAR)

IECEx Certificate of Conformity (CoC)



To obtain this certificate, the manufacturer prepares his application and submits it to the relevant IECEx Certification Body (ExCB). Samples of the equipment will be tested by the laboratory of the ExCB and a factory inspection will be organized. On-going periodic audits (factory inspections) ensure that the stringent standards are being maintained by the manufacturer, over time.



IECEx Equipment Scheme





The ExTR demonstrates that a sample of ex-production product has been tested to <u>all</u> relevant requirements of <u>all</u> relevant IEC or ISO Standards and that the sample has satisfied <u>all</u> relevant requirements.



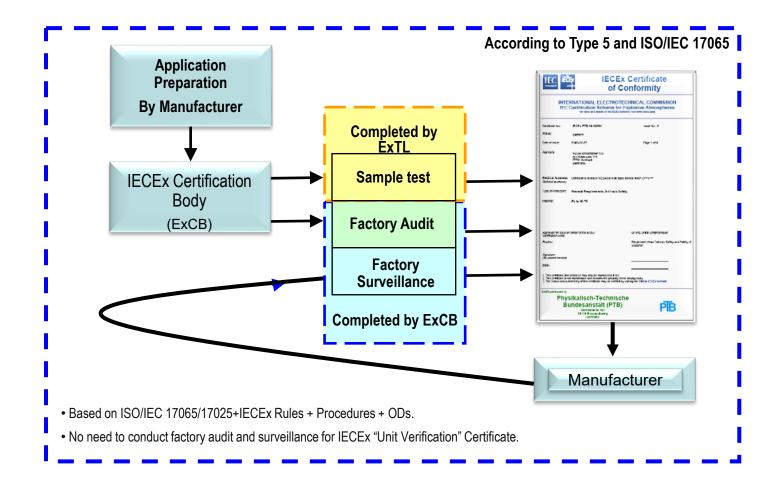
IECEx Equipment Scheme

IECEx Quality Assessment Report (QAR)



The QAR demonstrates that all manufacturing locations where the certified product is manufactured have been audited and have been confirmed as capable of manufacturing product identical in design and performance to the tested sample. The QAR has a three year life and at the end of the three years a full audit is required. Surveillance audits are also conducted during the three year period. The frequency of surveillance audits is determined by ISO 9001 and ISO 80079-34 certification status.

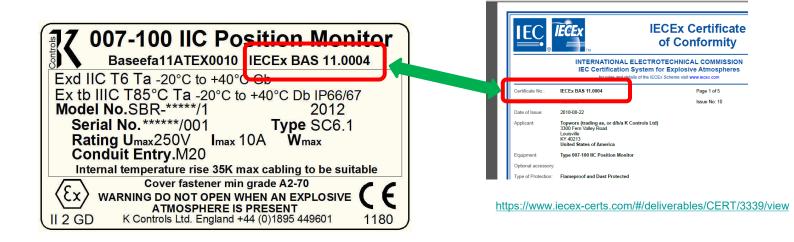
Certification Process for Ex Equipment







The IECEx Certificate number MUST appear on product

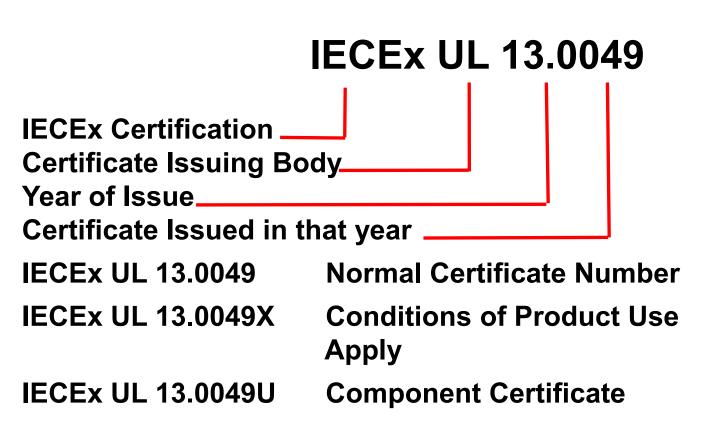


Under the IECEx Certified Equipment Scheme, the IECEx Certificate number displayed on the product matches the Certificate Number as shown on the Master version on the IECEx website – this enables instant verification of claims of IECEx Certification via the IECEx OCS ... more about this later





'Standard' IECEx Certificate Number



Certificate Number appears on Product Marking



Attachments & Annexes to Certificates

IEC TECE	X	Certif onforn		Bas Rookhead B Staden Iane, Bu Ski7 United H	siness Park ton, Derbyshire 9RZ		Baseefa	
	RNATIONAL ELECTROTE Certification Scheme for I for rules and details of the IECEx So	Explosive A	tmospheres	ANNEX to IECEX B	-	ssue No. 0	Date: 2009/02/13	
Certificate No.: Statux Date of Issue: Applicant:	IECEx BAS 06 0111X Current 2010-02-10 Harvko International A Dreson of Hubbell Limited A Member of the Hubbell Group of Con Crifed Barel West Antobu-under-Lyne Langesta United Kingdom	haue No.1 Page 1 of 4 mpanies	Cartificate Nation: Insue No. 1 (2010-2-10) Insue No. 0 (2009-2-16)	alternative entry thread forms. Variant 0.1 - Type PR 411 The Type PR 411 cable gland is	ntended for use with an effect ided for use with effectively fi prises the following component	ively filled circular cable illed circular, unarmoure	um and may be supplied with specified in flameproof applications. For other protection kd, armoured, steel basket weave armoured or	
Bectrical Appenditus Optional accessory: Type of Protection: Marking: Approved for issue on Certification Body.	PR411 and PR453 Cable Glands Planneproof, Increased Safety and Dr Ex d IIC Ex e II Ex ID A21 IM6 (-60°C PR411 Dehalf of the ISCEx R 5 Sinder		r the PR453, or +100°C for the		range Os to F (M16 to M75) and armour clamping cone amping ring	ely filled and circular arn	noured or braided cable and comprises the	
2. This certificate is no 3. The Status and auth Certificate issued by:	Menging D schedule may only be reproduced in full thereferable and remains the property o rendary of this certificate may be verified -, Baseline collected Business Park Station Lane Business		Baseefa		certit infor Oper <u>MUS</u>	ficate c mation, ration li <u>CT</u> alwa	ments / Annex ontain addition , Installation Ir nstructions etc ys be read with ND provided	nstructions, cetra and th the

certificate AND provided with downloaded or printed copies of the Certificate



IMPORTANT DEFINITIONS & DIFFERENCES

It is important that you understand some definitions and the differences between them ...

- Ex Equipment
- Ex Component
- Assembly
- Specific Conditions of Use
- Schedule of Limitation
- ExTR Summary
- QAR Summary

...we will explore these as we proceed through the presentation (further references = IEC 60079-0 and IECEx Rules)



Registry of Test Reports + Factory Audit Reports

	IEC IECEx	IECEx Certificate	
		of Conformity	
	Certificate No.: IECEx UL 19.0039X Date of issue: 2019-10-11	Page 2 of 3 Issue No: 0	
Image: Strategy of the strategy	IECEx Scheme Rules, IECEX 02 and Operational Document	China Assessmen China Assessmen Summaries	are connected to
acturer: Eator's Crouse-Hinds Business 1201 Wolf St. Syracuse, NY 13208	STANDARDS : The equipment and any acceptable variations to it specified it to comply with the following standards IEC 60079-0:2017 Explosive atmospheres - Part 0: Equip		
on of our control states of America control Exe ci all CT 4Gc Ex is to litt CT 135°C Do IP66 Si Luminaire input 130-2777vac, 50/60Hz nemt: LED Luminaires Reference: VMV LED Luminaire, Models 3L, SL, 7L, 9L, and dIECEx.Centificates: UL 10.0039X Issue 0	Edition:7.0 IEC 60079-11:2011 Explosive atmospheres - Part 11 r, d Edition:8.0 IEC 60079-31:2013 Explosive atmospheres ont 31: Equ Edition:2 IEC 60079-7:2017 Explosive atmospheres - Part 7: Equit	ulpment protection in merinaic safety "I" ulpment duragentition protection by enclosure "t"	'i" Protection "n" Optical Radiation "op" Dust Ignition
) Only a Summ udit Report is s) Registration p ccording to the	TEST & ASSES STATEPORTS: A sample(s) of 1 Statement listed has successfully met the Test Report: US/U/ExTRI9.0045/00 Quality Assessment Reports: AU/TSA/QAR06.0020/11 GB/BAS/QAR07	e examination and test requirements as recorded in: 97.0041/09 US/UL/QAR17.0013/01	and Factory been issued ssment



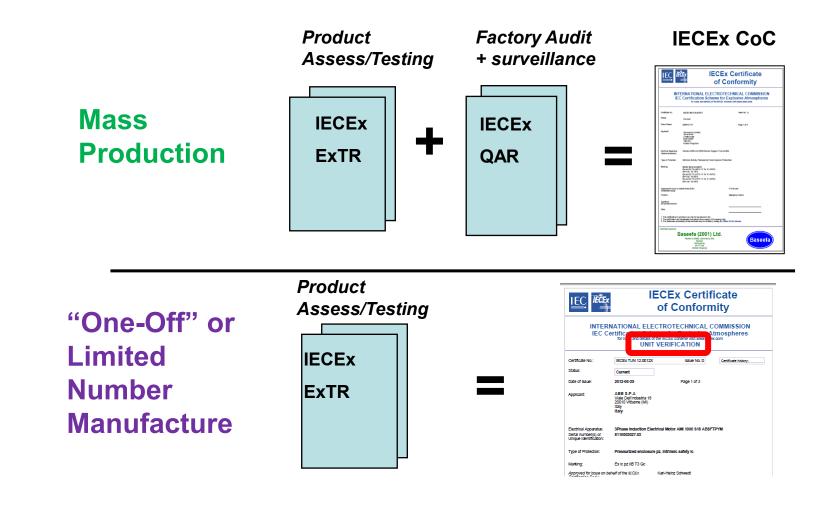
Certificates Up-Issued to cover changes

Changes may include:

- New models added
- Design changes
- New Manufacturing sites added
- Administrative changes (change in company name or address)
 AND
- The certificate must always explain why it has been upissued and what the changes are in the *Details of Certificate Change* field



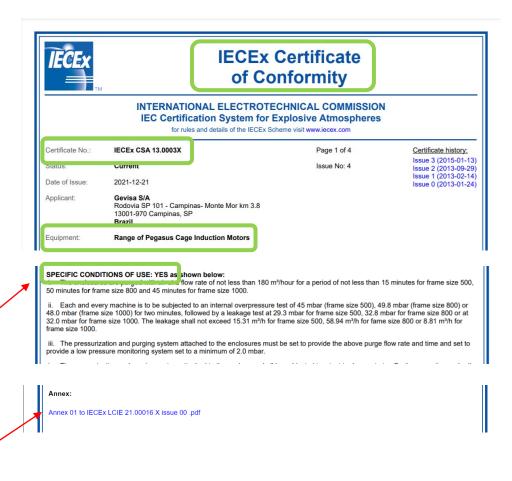






IECEx "NORMAL" Certificate of Conformity

- Covers "future" mass production runs.
- No limit for the number of units of product
- Do not expire or require up-issue with a change of the Standard(s)
- Test samples must comply with all relevant requirements of all relevant Ex Standards
- Ongoing Factory / factories Quality Management System Assessment is required.
- Will have an "X" suffix to Cert # if there are **Specific Conditions of Use** for the equipment
- Any ANNEXES to the Certificate MUST also be read when reading the Certificate





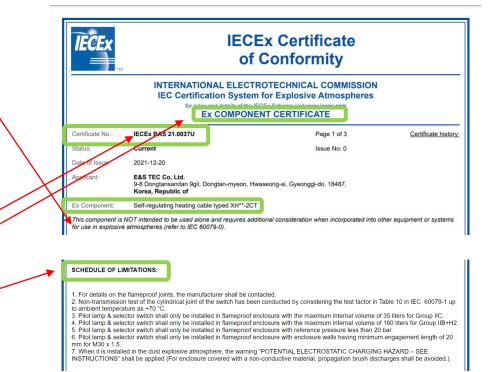
IECEx "Ex Component" Certificates

.... are for the certification of

"equipment intended to be part of Ex Equipment which is incomplete, not intended to be used alone, and requires additional evaluation prior to incorporation into Ex Equipment"

The format & content is the same as a "normal" Certificate of Conformity with the following <u>differences</u>:

- The Certificate # always has a 'U" suffix
- Has a special title of "Ex Component-Certificate"
- Always Includes a special Schedule of
 Limitations field that contains CRITICAL
 INFORMATION necessary to correctly apply
 the Ex Component





IECEx "Unit Verification" Certificates

- An IECEx Unit Verification Certificate (UVC) covers a defined number of products/items that are produced under a single production run.
- IECEX UVCs do <u>NOT</u> cover "future" mass production

manufacturing runs.

- UVCs are similar in format and content to other IECEx Certificates BUT
 - Have a different title
 - Require a linked ExTR Summary
 - DO NOT require a linked QAR Summary
 - All requirement of all relevant standards apply.
 - Include a special field for specifying the Serial # of covered units
 - <u>Cannot</u> be up-issued to add units or change any details of models, design, construction, testing etcetra

		Ex Certif f Conform	
	NATIONAL ELECT ertification Scheme for rules and details of the E UNIT VE	for Explosive A	tmospheres
Certificate No.:	IECEx ITS 10.0065X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2011-02-14	Page 1 of 3	
Applicant:	Amot Controls Western Way Bury St. Edmunds Suffolk IP33 3SZ United Kingdom		
Electrical Apparatus:	Purge Control Cabinets		
Serial number(s) or	P00337E1A1 to P00337E1A6	inclusive.	



IEC TS 60079-46

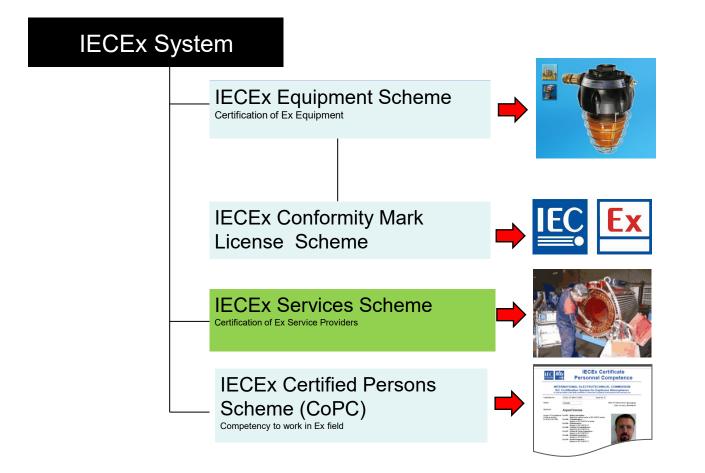
Defines an Assembly as

pre-manufactured combination of Ex Equipment, together with other parts as necessary, that are electrically or mechanically interconnected that are pre-assembled prior to being placed into service at the end-user site, and that can be disassembled and then re-assembled at the enduser site

and IECEx certification of assemblies is usually done via IECEx Unit Verification Certificates that also cover IEC 60079-0 requirements and ISO 80079-36 requirements (for any nonelectrical aspects)



Schemes within the IECEx System





IECEx Certified Service Facility Scheme

Certifying providers of

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

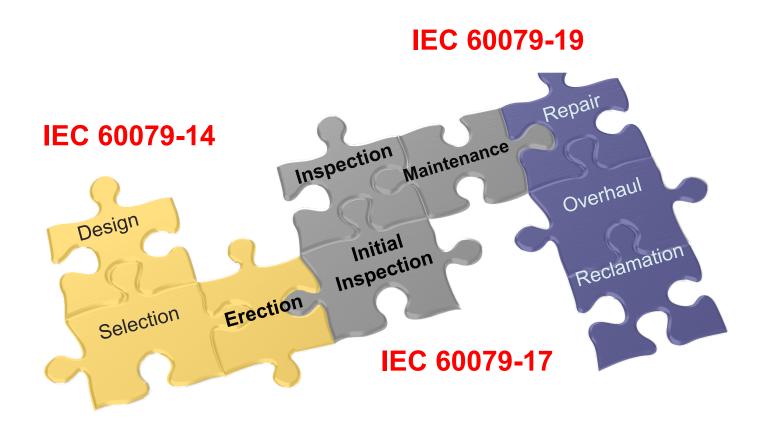
services on Ex Equipment







Relevant IEC "Service" Standards



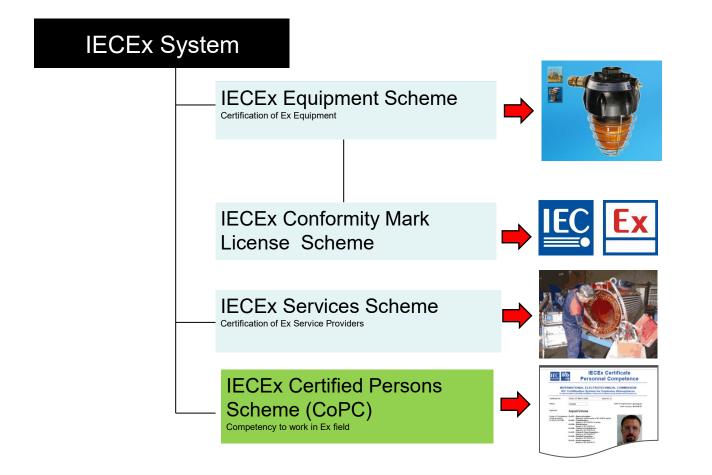


IECEx Certified Service Facility Scheme

	IECEx	IECEx CoC Certified Service Fa	acility
	IEC Certification	L ELECTROTECHNICAL COMMISSIO on System for Explosive Atmospheres details of the ECEx Scheme visit www.iecex.com	DN
Certificate No.:	IECEX BAS \$0001	Page 1 of 1	Certificate hists
Status:	Current	Issue No: 0	Issue 2 (20184 Issue 1 (20124
Date of Issue:	2008-10-20		Issue 0 (2008-
Applicant:	Dowding and Mills (UK) Limits Lower East Street Middlestrenigh Cleveland TS2 IOQ United Kingdom	ed	
Type of Service:	Repair and Overhaul accordin	ng to IEC 60079-19	
Type of Protection:	Flameproof Enclosure "d", Ind	creased Safety "e", Type of Protection "n"	
Scope of Service:	Repair and Overhaul of Rotating	g Machines and Enclosures	
Locations covered I	by this Certificate:		
Facility Audit Report GB/BAC/FAR08.00			
Certification Body:	on behalf of the IECEx	R S Sinclair	
Certification Body: Position:	on behalf of the IECEs	R S Sinclair Managing Director	
Certification Body:			
Celtification Body: Position: Signature: (for printed version) Date:			
Certification Body: Position: Signature: (for printed version)			
Celification Body: Position: Signature: (for printed version) Date: (for printed version) 1. The certificate and 2. The certificate and) I schedule may only be represented in full	Managing Director	
Celification Body: Position: Signature: (for printed version) Date: (for printed version) 1. The certificate and 2. The certificate and	l I substatute many man's bei superstatus i in fait of transformatie and remains the property of thermosty of the contractive many be weeked	Managing Director	



Schemes within the IECEx System





- Competence = Application of knowledge and skills to the standards of performance required in the workplace.
- Competency includes all aspects of work performance and not just specific skills...
 - Persons must be aware of the hazards in their work area and work safely in their presence
 - Persons must know what they are doing under various scenarios
 - Equipment must be used correctly



IECEx CoPC Units of Competence

Reference	Title
Unit Ex 000	Basic knowledge & awareness to enter hazardous area site
Unit Ex 001	Apply basic principles in explosive atmospheres
Unit Ex 002	Perform classification of hazardous areas
Unit Ex 003	Install explosion protected equipment & wiring systems
Unit Ex 004	Maintain equipment in hazardous areas
Unit Ex 005	Overhaul & repair of explosion protected equipment
Unit Ex 006	Test electrical installations
Unit Ex 007	Perform visual & close inspection of electrical installations
Unit Ex 008	Perform detailed inspection of electrical installations
Unit Ex 009	Design electrical installations
Unit Ex 010	Perform audit inspection of electrical installations
Unit Ex 011	Hydrogen Safety Systems



IECEx Certified Persons Scheme

IECE x	Pe	IECEx Certifica ersonnel Compe		
	IEC Certificati	L ELECTROTECHNICAL COM ion System for Explosive Atmos details of the IECEX Scheme visit www.iecex.c	pheres	
Certificate No.:	IECEx CP ACT22.0001		Issue No:	0
Status:	Current		Date of Original issue:	2022-11-18
Applicant:	Christopher Harris Australia		Date of Expiry:	2027-11-18
Ex 002 - Classific		aries	- Bitte	
relating to the scop	0001/00 saued as verification that the Applic	ant was assessed and found to comply with Standards listed above. This certifiate is grar	the IECEx CoPC Scheme i read subject to the condition	requirements, is as set out in
Approved for issue Certification Body: Position: Signature: (for printed version	on behalf of the IECEx	David Huddleston General Manager		
2. This certificate is 3. The Status and a	d schedule may only be reproduced in full, not transferable and remains the property of sheat city of this certificate may be verified	of the issuing body.		
Certificate issu				
Competency 55 Mica Street Carole Park Ipswich, Quee Australia				G





iecex-certs.com/home

IECEx Certificates

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

94

Home Search Export



IECEx Online Certificate System

("IECEx OCS")

https://www.iecex-certs.com/#/home

:y 'Contact | IEC offices



IECEx On-Line Certificate System

A tool for you to:

FIND

- Certification Bodies and Test Laboratories
- suppliers of Ex equipment
- competent personnel
- Ex Service Providers

CHECK

- Equipment markings
- Certificate details
- Personnel credentials
- Equipment installation requirements



- The online version is the MASTER version >>> Copies as PDF files, printouts etc are UNCONTROLLED and must NOT be trusted as correct, complete or current
- Certificates issued by ALL ExCBs in the one place >>> if not on IECEx website – then <u>not</u> issued or valid!
- Certificate / Report Number <u>automatically generated</u> <u>by system</u> and ALL *Certificate #s begin with "IECEx...."*
- ExCBs can only issue CoCs within their accepted scope via password protected access



IECEx OCS Content

IECEx	x IECEx Certificate of Conformity									
	IEC Certification System	ROTECHNICAL COMMISSION n for Explosive Atmospheres ECEx Scheme visit www.iecex.com								
Certificate No.:	IECEX IBE 08.0005X	Page 1 of 4	Certificate history;							
Status:	Current	Issue No: 4	Issue 3 (2017-07-03) Issue 2 (2016-04-14)							
Date of Issue:	2021-12-20		Issue 1 (2012-07-27) Issue 0 (2008-10-08)							
Applicant:	PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 32825 Blomberg Germany									
Equipment:	NAMUR Isolating Switch Amplifier MACX	MCR(-EX)-SL-xNAM-yT(-SP) and MACX MCR	EX-SL-NAM-NAM(-SP)							
Optional accessory:										
ype of Protection:	Intrinsic Safety, Type 'ec'									
/larking:	MACX MCR-EX-SL-xNAM-yT/NAM(-SP):									
	[Ex la Ma] I [Ex la Ga] IIC [Ex la Da] IIC Ex ec [la Ga] IIC T4 Ge									
	MACX MCR-SL-xNAM-yT(-SP):									
	Ex ec IIC T4 Gc									
Approved for issue Certification Body: Position: Signature:	on behaf of the IECEx	Alexander Henker Deputy Head of department Certification	Βοσγ							
for printed version)										
) ate: 1. This certificate and 2. This certificate is no 3. The Status and aut	schedule may only be reproduced in full. It transferable and remains the property of the issuing bee entidity of this certificate may be verified by withing www.	dy Jacon.com or use of this OR Code.								
Certificate issue IBEXU Institut f Fuchsmühlenw 09599 Freiberg Germany	ür Sicherheitstechnik GmbH	B	<u>Ex</u> U							

- Certificates and reports always live and current
- QR Code for instant verification of downloaded copies of Certificates
- Saved, publicly viewable and downloadable as a PDF file
- Provides for Multiple Pages to a Certificate and all Attachments
- Page 1 identifies the CB issuing the Certificate
- All other certificates in the same series visible and accessible by links in the Certificate History field in upper right of page 1
- Online documents are <u>not</u> signed but facility exists where an ExCB is requested to provide signed (but uncontrolled copies)



IECEx OCS Tools

Multiple search methods

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			2003 ÷ - 2020 ÷ Applicant (manufacturer/service facility/perso	n)	Scopes		• • S	Country United Kingdom		•	
			Keywords						Recently vi		
			Q, Search			1275 result(s) found			4 Recently vi	rwed	
			CERTIFICATE NO.	STATUS	EXCB	APPLICANT		DATE OF ISSUE 🕹	DATE OF EXPIRY		
			IECEx CP SIR20.0008 Issue 0	CURRENT	SIR	Bryan Dunn		2020-01-28	2025-01-27		
			IECEx OP SIR20.0006 Issue 0	CURRENT	SIR	Kristensen Theis Kenneth		2019-11-08	2024-11-07		
			IECEx CP SIR20.0001 Issue 0	CURRENT	SIR	Linn Tin Maung		2019-11-07	2024-11-06		
			IECEx CP SIR20.0002 Issue 0	CUMMENT	SIR	Hein Zaw		2019-11-07	2024-11-06		
			IECEX CP SIR20.0004 Issue 0	CURRENT	SIR	Ha U Thi		2019-11-07	2024-11-06		
			IECEx CP SIR20.0003 Issue 0	CURRENT	SIR	HoTh		2019-11-07	2024-11-06		
			IECEx CP SIR20.0005 Issue 0	CURRENT	SIR	Yu Yu Moe Thu		2019-11-07	2024-11-06		Ţ

Download data to Excel with preset reports

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4 IECEx CP BAS12.0008	1	SGS Bas	eefa Limited	2018-0	3-31	2012-08-2	20 CUF	RENT GB	Lee	Bonham	Ex 001	- Basic prir	nciples - Ba	sed on variou	s parts of IEC
5 IECEx CP BAS12.0008	2	SGS Bas	eefa Limited	2023-0	3-01	2012-08-2	20 CUF	RENT GB	Lee	Bonham	Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
2 IECEx CP BAS10.0002	3	SGS Bas	eefa Limited	2022-0	7-18	2010-11-:	19 CUF	RENT GB	Ma	rk Bell	Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
3 IECEx CP BAS12.0007	1	SGS Bas	eefa Limited	2018-0	9-30	2012-08-0	02 CUF	RENT GB	Ma	rk Russell	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
4 IECEx CP BAS12.0007	2	SGS Bas	eefa Limited	2023-0	3-01	2012-08-0	02 CUF	RENT GB	Ma	rk Russell	Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
2 IECEx CP BAS14.0014	1	SGS Bas	eefa Limited	2022-1)-18	2014-11-1	10 CUF	RENT GB	Kyle	e Renwick	Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
7 IECEx CP BAS15.0006	6	SGS Bas	eefa Limited	2018-0	3-31	2015-09-0	01 CUF	RENT GB	Jos	eph Innes	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
8 IECEx CP BAS15.0006	1	SGS Bas	eefa Limited	2023-0	3-01	2015-09-0	01 CUF	RENT GB	Jos	eph Innes	Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
0 IECEx CP BAS10.0003	2	SGS Bas	eefa Limited	2022-0	5-06	2010-11-1	19 CUF	RENT GB	lan	Harrison	Ex 001	- Apply ba	sic principle	es of protection	on in explosive
6 IECEx CP BAS18.0003	б	SGS Bas	eefa Limited	2023-0	8-09	2018-03-0	09 CUF	RENT GB	Drl	Martin Kille	en Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
08 IECEx CP BAS13.0001	1	SGS Bas	eefa Limited	2019-0	5-21	2013-03-1	15 CUF	RENT GB	And	drew Dodd	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
9 IECEx CP BAS13.0001	2	SGS Bas	eefa Limited	2024-0	7-01	2013-03-3	15 CUF	RENT GB	And	drew Dodd	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
57 IECEx CP BAS14.0013	1	SGS Bas	eefa Limited	2022-0	5-01	2014-07-1	15 CUF	RENT GB	Rick	hard Grahai	m Ex 001	- Apply ba	sic principle	es of protectio	on in explosive
61 IECEx CP BAS13.0002	0	SGS Bas	eefa Limited	2016-0	1-24	2013-04-2	25 CUF	RENT GB	Mik	e Doddingt	on Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
58 IECEx CP BAS10.0002	2	SGS Bas	eefa Limited	2017-0	8-18	2010-11-:	19 CUF	RENT GB	Ma	rk Bell	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
74 IECEx CP BAS14.0014	Ő	SGS Bas	eefa Limited	2017-1	L-09	2014-11-1	10 CUF	RENT GB	Kyle	e Renwick	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
BO IECEx CP BAS10.0003	1	SGS Bas	eefa Limited	2017-0	8-18	2010-11-:	19 CUF	RENT GB	lan	Harrison	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
81 IECEx CP BAS13.0003	0	SGS Bas	eefa Limited	2016-0	1-24	2013-04-2	25 CUF	RENT GB	lan	Nicholson	Ex 001	- Basic prir	nciples - Ba	sed on variou	s parts of IEC
82 IECEx CP BAS13.0003	1	SGS Bas	eefa Limited	2016-0	1-24	2013-04-2	24 CUF	RENT GB	lan	Nicholson	Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
89 IECEx CP BAS13.0006	0	SGS Bas	eefa Limited	2016-1	0-09	2013-10-3	10 CUF	RENT GB	Der	metrio Flore	s Ex 001	- Basic prin	nciples - Ba	sed on variou	s parts of IEC
IECEX-PERSO		PERSONS-EF	• (+)						•						



IECEx OCS Search **Results Example**

IECEX Certific International Electrote Relating to Equipment	chnical Commiss	ion System for (ive Atmosphere	Certification to Standards s		Home	Search	Export			Search by ref #	Q Lo	in in
		2	nformation about the content	and preparation of IECEx C	ertificates and F	Reports for e	ach IECEx Scheme can be f	ound in the	e respective versions of IECEx O	0011		
Type of certificate / report Equipment and Comp	onent Certific	cates									÷ 🗈	
Date range 2003 ♦ - 2021 ♦			—	Status Current				¢ \$	IECEx Certification Body			
Issued to (Applicant/Man	ufacturer/Serv	vice Facility/	Person) 🏫	Scopes				S	Country		0	
Keywords											٩	
Q Search					49176	result(s) fou	und					
CERTIFICATE NO.	STATUS	EXCB	EQUIPMENT							ISSUED TO	DATE OF ISSUE 🕹	
IECEx KSCP 21.0045X Issue 0	CURRENT	KSCP	Smart Vibration Senso	Smart Vibration Sensor SVS type						Signallink Co., Ltd.	2021-12-22	
IECEx BAS 16.0067 Issue 4	CURRENT	BAS	Model SADPmini2-Ex	/odel SADPmini2-Ex						Alpha Moisture Systems	2021-12-21	
IECEX LCIE 18.0021X I DIE Intrincipally Safa Clampton Signal Dracsure Transduper - Type: CSDT.RA. CSDT.RA. CSDT.RA.										Schlumberger Kabuchiki Kaicha	2021-12-21	

Thank you for your attention.

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