



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 21.0025X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2023-06-16)
Date of Issue:	2025-09-04		Issue 1 (2022-04-12)
Applicant:	ExRobotics B.V. Delftechpark 26 Delft 2628 XH Netherlands		Issue 0 (2021-05-11)
Equipment:	Robot Operator and Docking Station, ExR-2 Robot Operator (Includes ExR-2 Docking Station)		
Optional accessory:			
Type of Protection:	Equipment assemblies		
Marking:	Ex 60079-46 IIB T4 Gb -40°C ... -20°C to 50°C ... 55°C		

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2025-09-04

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

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





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Manufacturer: **ExRobotics B.V.**
Delftechpark 26
Delft 2628 XH
Netherlands

Manufacturing
locations: **ExRobotics B.V.**
Delftechpark 26
Delft 2628 XH
Netherlands

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 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-5:2015](#) Explosive atmospheres -Part 5: Equipment protection by powder filling "q"
Edition:4.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

[IEC TS
60079-46:2017](#) Explosive atmospheres - Part 46: Equipment assemblies
Edition:1.0

[ISO 80079-36:2016](#) Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition:1.0

[ISO 80079-37:2016](#) Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
Edition:1.0

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/ExTR21.0025/00](#)

[US/UL/ExTR21.0025/01](#)

[US/UL/ExTR21.0025/02](#)

Quality Assessment Report:

[DK/ULD/QAR18.0002/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The ExR-2 Robot Operator is a remotely operated vehicle that is used to inspect oil and gas facilities. The ExR-2 Docking Station is provided as one method of charging the ExR-2 Robot Operator and is permissible for charging within the Hazardous (Explosive) Atmosphere. The vehicle is constructed of certified components including cameras, lights, motors, and various sensors. The various components are interconnected with certified cable glands and suitable cables.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The Dome PTZ, when fitted, may be used only in locations with a low risk of mechanical impact.
- Potential electrostatic charging hazard – see instructions.
- Do not repair the flameproof joints of robots or any of their components.
- Flameproof joints are closed using fasteners with a yield stress $\geq 450 \text{ N/mm}^2$ except for:
 - The Dome PTZ Module, use fasteners with a yield stress of $\geq 640 \text{ N/mm}^2$.
 - Det-tronics Hydrocarbon Gas Module, use fasteners with a yield stress of $\geq 65000 \text{ psi}$ (448 N/mm^2).



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Update of manufacturing location address. No update of ExTR for this issue.

Issue 2: Revisions to the construction consisting of certified devices and custom designed parts.

Issue 3: Manufacturer's address changed from Effenseweg 1, Breda, 4838 BA, The Netherlands to Delftechpark 26, Delft 2628 XH, Netherlands.

Annex:

[Annex to IECEx UL 21.0025X Issue 3.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

ExR-2 Docking Station 100V to 240Vac, 1300W max

ExR-2 Robot Operator: $U_m = 240V$, 45Vdc max, 1300W max

The following Clauses from IEC 60079-14 Ed. 5 were verified as part of the Ex equipment assembly: 4.1, 4.4.1.1, 4.4.1.2, 4.4.2, 5.14.1., 6.1, 6.2, 6.5.1, 6.5.2, 6.7.1, 6.7.2, 7, 8.1, 9.1, 9.3.1, 9.3.2, 9.3.8, 9.5, 9.6.2, 10.1, 10.2, 10.3, 10.5, 10.6.1, 10.6.2, 11.1, 14.1, 15.1, 16.1, 16.2.1, 16.2.2.1, 16.2.2.2, 16.2.2.5.1, 16.2.2.5.2, 16.2.2.6, 16.2.3, 16.4, 20, and 21.

The following Clauses from IEC 60079-14 Ed. 5 were considered not applicable: 4.4.3, 5.4.3, 5.4.5, 5.6.3, 5.8, 5.10.3, 5.11.4, 5.11.5, 5.12, 5.13.1, 5.13.2, 5.13.3, 5.15, 6.5.3, 6.8, 9.2, 9.3.3, 9.3.4, 9.3.5, 9.4, 9.6.1, 9.6.3, 9.6.4, 9.6.5, 9.6.6, 10.4, 10.7, 10.8, 11.2.1, 11.2.2, 11.3, 11.4, 11.5, 11.6, 12, 13, 14.4, 15.2, 15.3, 15.4, 16.2.2.3, 16.2.2.4, 16.2.2.5.3, 16.2.2.7, 16.2.2.8, 16.2.4, 16.3, 16.5, 16.6, 17, 18, 19, 22, 23, and Annex H.

The following Clauses from IEC 60079-14 Ed. 5 need to be verified on site: 4.2, 4.3, 4.5, 5.1, 5.2, 5.3, 5.4.1, 5.4.2, 5.4.3, 5.4.4, 5.5, 5.6.1, 5.6.2, 5.7, 5.9, 5.10.1, 5.10.2, 5.11.1, 5.11.2, 5.11.3, 5.14.2, 5.16, 6.3, 6.4, 6.6, 6.9, 8.2, 8.3, 9.3.6, 9.3.7, 9.3.9, 14.2, 14.3, Annex A, Annex C, Annex G, and Annex K.

MARKING

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

		ExRobotics B.V. Street Postal code, City The Netherlands	
CE 0539	Date of manufacture September 2021		
ExR-2 Robot Operator	Weight 100kg		
ExR-SW-003377	Serial number #202		
IECEx UL 21.0025X	UL 21 ATEX 2535X	UL 21 ATEX 2536X	
Ex 60079-46 IIB T4 Gb	 II 2 G Ex db eb Ib mb q IIB T4 Gb		Ex h IIB T4 Gb
-40°C ≤ Ta ≤ +55°C		See Instructions	
 Total power housed < 1300 W • Um = 240V • Operating < 45 V DC			
 WARNING OPEN ONLY IN NON- HAZARDOUS AREA		 WARNING MAINTENANCE TO BE PERFORMED ONLY BY EXROBOTICS' APPROVED COMPANIES	

		ExRobotics B.V. Street Postal code, City The Netherlands	
CE 0539	Date of manufacture September 2021		
ExR-2 Docking Station	Weight 25kg		
DCR-SW-003721	Serial number #001		
Part of IECEx UL 21.0025X UL 21 ATEX2535X UL 21 ATEX2536X			
IEC 61439-1			
-40°C ≤ Ta ≤ +55°C		See Instructions	
⚡ Total power housed < 1300 W • Um = 240V			
 WARNING OPEN ONLY IN NON- HAZARDOUS AREA	 WARNING CONNECT TO A 100 TO 240 VAC POWER SUPPLY WITH A 20A FUSE,	 WARNING MAINTENANCE TO BE PERFORMED ONLY BY EXROBOTICS' APPROVED COMPANIES	



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ROUTINE EXAMINATIONS AND TESTS

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

- Routine Dielectric Strength Test in accordance with Clause 5.2.2 of IEC/EN 60079-5 shall be performed on each lot of Swarco glass beads.
- Routine Pressure Test in accordance with Clause 5.2.1 of IEC/EN 60079-5 shall be performed on each ELE Electronics Box at a pressure of 50kPa for a duration of not less than 10 seconds. No permanent deformation of the enclosure is to exceed 0.5mm in any dimension.

LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of this Certificate were applied to integral Components as itemized below. There are no significant safety related changes between these previous editions and the editions noted under the "Standards" section.

Product	Certificate Number	Standards
MBA 332311 MBA 101080	IECEx IBE 14.0020U	IEC 60079-0:2011 IEC 60079-7:2006-07
CTE1300YU	IECEx ITS 13.0018X	IEC 60079-0:2011 IEC 60079-1:2007-04 IEC 60079-7:2006-07
LEX15	IECEx DEK 17.0046X	IEC 60079-0:2011
8003/121-015 8003/131-726-2r	IECEx PTB 06.0065X	IEC 60079-0:2004 IEC 60079-1:2001 IEC 60079-7:2001
PMP.E4 or E5 PMS.N6.C.20	IECEx CML 16.0046X	IEC 60079-0:2011 IEC 60079-1:2007-04 IEC 60079-7:2006-07
XIMIC	IECEx BAS 18.0026X	IEC 60079-0:2011
8573/15-210 241387	IECEx PTB 16.0030U	IEC 60079-7:2015
FALCO 1.1	IECEx FTZU 16.0011X	IEC 60079-0:2011 IEC 60079-1:2007-04
GD10-P00	IECEx PRE 19.0015X	IEC 60079-1:2014-06 IEC 60079-7:2015
ATX10	IECEx ULD 13.0003X	IEC 60079-0:2011 IEC 60079-1:2007-04
AC100	IECEx ULD 13.0002X	IEC 60079-0:2011
DB20 11C	IECEx BAS 05.0083X	IEC 60079-0:2004 IEC 60079-1:2003 IEC 60079-7:2001
HSK-M-Ex M16	IECEx BVS 14.0020X	IEC 60079-7:2015