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 TIIS 22.0003X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2022-04-01		
Applicant:	Mitsubishi Heavy Industries, Ltd. 1-1, Wadasaki-cho 1-chome Hyogo-ku Kobe Hyogo, 652-8585 Japan		
Equipment:	EX ROVR Charging station 2.0		
Optional accessory:			
Type of Protection:	**Pressurized enclosure “pxb” , Intrinsic safety “ib”, Flameproof “db”, increased safety “eb” and encapsulation “mb”**		
Marking:	Ex db eb ib mb [pxb Gb] IIB + H_2 T3 Gb		

Approved for issue on behalf of the IECEx Certification Body: Minari Kogane

Position: Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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.

Certificate issued by:

Technology Institution of Industrial Safety
16-26 Hirosedai 2
Sayama-city
Saitama prefecture
Japan

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Manufacturer: Mitsubishi Heavy Industries, Ltd.
1-1, Wadasaki-cho
1-chome
Hyogo-ku
Kobe
Hyogo, 652-8585
Japan

Manufacturing locations: Mitsubishi Heavy Industries, Ltd.
1-1, Wadasaki-cho
1-chome
Hyogo-ku
Kobe
Hyogo, 652-8585
Japan

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

IEC 60079-1:2014-06 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 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
Edition:4.0

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

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

JP/TIIS/ExTR22.0001/00 JP/TIIS/ExTR22.0003/00

Quality Assessment Report:

JP/TIIS/QAR22.0002/01

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

EX ROVR Charging station 2.0 is an explosion-proof device developed for the non-contact power supply of an explosion-proof mobility in Zone 1, and is equipped with an interlock-controlled purging gas and protective gas supply system. It is mainly composed of a controller and a coil case protected by flameproof enclosure and is equipped with peripheral devices such as intrinsically safe pressure switches.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Ex Coil Case which is a part of EX ROVR Charging station 2.0 has following Specific Conditions of Use.

- Type tests with an obstacle along the long side flange were performed. The equipment can be install even if there is no clearance between long side flange opening and obstacles outside. Leave a clearance of 40mm at least on the outside of short side flange opening.
- CAUTION: USE FASTENERS WITH YIELD STRESS ≥ 450MPa.
- The window cannot be replaced, repaired or maintained by the end-user in case of damage. The manufacturer shall be involved for any replacement, repair or maintenance.
- Avoid mechanical impact on the glass.

Annex:

Annex_IECEx_TIIS_22.0003X-issue0.pdf

Technology Institution of Industrial Safety

16-26 Hirosedai 2, sayama-city, Saitama prefecture, Japan

Annex to IECEx TIIS 22.0003X issue No. 0 Date: 2022/03/31

This document is an annex to IECEx CoC (IECEx TIIS 22.0003X issue No. 0).

Additional explanation of STANDARDS and EQUIPMENT

Some parts of the equipment have separately certified with different editions of standards.

The equipment listed below is used with EX ROVR Charging station 2.0, and is not certified repeatedly.

Standards associated with the following equipment are also listed in the STANDARDS section of this IECEx CoC with some exceptions as follows.

- IEC 60079-15 and IEC 60079-31 are omitted since those are not used for EX ROVR Charging station 2.0.
- Amendments of IEC 60079-7 and IEC 60079-18 are omitted.

Name	Type	CoC	Related standards
Control box	EJB51	IECEx INE 13.0078X	IEC 60079-0: 2011 (Ed. 6.0) IEC 60079-1: 2014 (Ed. 7.0) IEC 60079-11: 2011 (Ed. 6.0) IEC 60079-31: 2013 (Ed. 2.0)
Isolated Switch Amplifier	KFD2-SOT3-Ex2	IECEx EXA 16.0009X	IEC 60079-0: 2011 (Ed. 6.0) IEC 60079-11: 2011 (Ed. 6.0) IEC 60079-15: 2010 (Ed. 4.0)
Limit switch	07-2951-1330/09	IECEx EPS 12.0037X	IEC 60079-0: 2011 (Ed. 6.0) IEC 60079-1: 2014 (Ed. 7.0) IEC 60079-31: 2013 (Ed. 2.0)
Solenoid valve	WBLP	IECEx LCI 12.0002X	IEC 60079-0: 2017 (Ed. 7.0) IEC 60079-18: 2017 (Ed. 4.1) IEC 60079-31: 2013 (Ed. 2.0) IEC 60079-7: 2017 (Ed. 5.1)