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 SIR 08.0091X**

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Certificate history:
Issue 2 (2018-03-06)
Issue 1 (2012-02-08)
Issue 0 (2009-02-19)

Status: **Current**

Issue No: 3

Date of Issue: 2021-03-31

Applicant: **International Metal Engineering PTE Ltd**
Blk 13 Toa Payoh Lorong 8
#06-05, Braddell Tech Park
Singapore

Equipment: **8080 Range of Indicators and Transmitters**

Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking: Ex db I Mb or Ex d IIC T6 Gb
And
Ex tb III C T85°C Db IP68
Ta = -40°C to +60°C

Approved for issue on behalf of the IECEx Certification Body: **Neil Jones**

Position: **Certification Manager**

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 or use of this QR Code.

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

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Manufacturer: **International Metal Engineering PTE Ltd**
Blk 13 Toa Payoh Lorong 8
#06-05, Braddell Tech Park
Singapore

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 60079-0:2011 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 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

GB/SIR/ExTR09.0001/00 GB/SIR/ExTR12.0026/00 GB/SIR/ExTR18.0013/00
GB/SIR/ExTR21.0026/00

Quality Assessment Report:

GB/SIR/QAR07.0040/08

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

The 8080 Range are cylindrical single compartment enclosures comprising a base and cover with a maximum internal volume of 280 cm cubed. The enclosures are manufactured from cast aluminium or stainless steel. Some cast aluminium versions are painted with epoxy paint. The cover may be blank or have a window fitted. Each enclosure may have up to 3 conduit openings, these conduit openings may be a combination of ½" NPT, ¾" NPT, M16 x 2, M20 x 1.5. The enclosures may contain equipment limited to a maximum power dissipation of 2.2W.
The stainless steel version of the 8080 range may also be used in Mining applications.

Refer to the Annese for Additional Information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only the stainless steel version of the 8080 enclosures can be used as Mining equipment.

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Date of issue: 2021-03-31 Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 3, recognises the following change; refer to the certificate annex to view a comprehensive history:

1. Remove all references to BSP thread types in the certificate product description and drawings, in relation to cable entry options, resulting in the removal of a condition in the certificate.
2. Removal of a Condition of Manufacture regarding the Ex component labelling.

Annex:

IECEx SIR 08.0091X Issue 3 Annexe.pdf

Full certificate change history

Issue 1 – this Issue introduced the following changes:

1. The addition of information to label drawings that shows specific model numbers, corresponding electrical ratings and marking relevant to other approvals.
2. The arrangement of the internal parts was clarified.
3. The addition of a Condition of Manufacture that excludes the use of batteries.
4. It was recognised that the equipment complies with IEC 60079-31:2008 Ed 1.

Issue 2 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed.5, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-0:2011 Ed.6, IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings and conditions were updated accordingly to recognise the new standards.
2. Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in IEC 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Issue 3 – this Issue introduced the following changes:

1. Remove all references to BSP thread types in the certificate product description and drawings, in relation to cable entry options, resulting in the removal of a condition in the certificate.
2. Removal of a Condition of Manufacture regarding the Ex component labelling.

Conditions of Manufacture

i. The equipment covered by this certificate are certified as Ex equipment, and consist of Ex component enclosures. The equipment shall be identified by the equipment label detailed in the respective label drawings. The label of the Ex component enclosures shall therefore be removed/defaced prior to delivery of the equipment to the end user. Only the Ex component model and serial number shall be permitted externally, if necessary;

ii. The equipment covered by this certificate incorporates previously certified devices; it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Sira of any modifications of the devices that may impinge upon the explosion safety design of the equipment;

iii. The equipment covered by this certificate incorporates previously certified devices; it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Sira of any modifications of the devices that may impinge upon the explosion safety design of the equipment.

Sira Certification Service
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