



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 FMG 19.0007X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2019-03-27)
Date of Issue:	2025-02-28		
Applicant:	International Metal Engineering Pte Ltd Blk 13, Toa Payoh Lorong 8 #06-05 Braddell Tech Park 319261 Singapore		
Equipment:	7080RRV Process Indicator; 5080 Series Terminal Assembly		
Optional accessory:			
Type of Protection:	Flameproof, "d" and Enclosure, "t"		
Marking:	IECEx FMG 19.0007X Ex db IIC T6 Gb Ta = -40°C to +75°C, IP68 Ex tb IIIC T85°C Db Ta = -40°C to +75°C, IP68		

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

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.
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Certificate issued by:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America

FM Approvals



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Manufacturer: **International Metal Engineering Pte Ltd**
Blk 13, Toa Payoh Lorong 8
#06-05 Braddell Tech Park
319261
Singapore

Manufacturing
locations: **International Metal Engineering Pte
Ltd**
Blk 13, Toa Payoh Lorong 8
#06-05 Braddell Tech Park
319261
Singapore

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 60079-31:2013](#) 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:

[US/FMG/ExTR19.0007/00](#)

[US/FMG/ExTR19.0007/01](#)

Quality Assessment Report:

[GB/SIR/QAR07.0040/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 7080RRV Process Indicator is a micro-controller based digital process indicator with two relay outputs. The instrument has three keys on the front panel, with which the operator can set parameters and configure the instrument as desired. A four-digit LED digital display is provided on the front panel which indicates the process value in real time. The instrument has non-volatile memory and operates on 24 Vdc, 4-20 mA current loop and can display the process value while providing user-configured control outputs. The 7080RRV electronics are mounted inside an IECEx certified 6080 Series Instrument Enclosure. The enclosure has an ingress protection rating of IP68.

7080RRV-a-b. Process Indicator.

a = Entries description 00, 01, 02, 03 or 04.

b = Conduit entry 05, 07, 18, 22 or 25.

The 5080 Series Terminal Assembly is an IECEx certified 6080 Series Instrument Enclosure with two to six terminals mounted inside. The IECEx certified terminals can be either Model MUT 2.5 manufactured by Phoenix Contact or Model AKZ 2.5 manufactured by Weidmuller Interface. The 5080 Series is rated for 250 V, 20A. The enclosure has an ingress protection rating of IP68.

5080a-b-c-d-e. Terminal Assembly.

a = Model AM, SM, TM or WM.

b = Conduit size 01 or 02.

c = Entries description 00, 01, 02, 03 or 04.

d = Conduit entry 05, 07, 18, 22, 25 or 26.

e = Number of terminals 02, 03, 04 or 06.

SPECIFIC CONDITIONS OF USE: YES as shown below:

7080RRV Process Indicator:

1. Follow the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the surface of the enclosure.
2. The flameproof joints are not intended to be repaired.

5080 Series Terminal Assembly:

1. Voltage and current supplied to the device shall not exceed 250 V, 20 A.
2. Follow the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the surface of the enclosure.
3. The flameproof joints are not intended to be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Documentation changes to update Phoenix Contact terminal part number due to obsolescence of the original part. Changes do not affect the equipment safety.