



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX SIR 16.0112U Issue No: 0 Certificate history:
Issue No. 0 (2017-04-27)

Status: **Current** Page 1 of 3

Date of Issue: **2017-04-27**

Applicant: **Yung Chan Metal Industry Co., Ltd.**
No 30 Keji 1st Road
Tainan Technology Industrial Park
Tainan City 709
Taiwan

Equipment: **XDA & XDS Flameproof Temperature Transmitter Housings**
Optional accessory:

Type of Protection: **Flameproof and Dust Protection by Enclosure**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T100°C Db

Approved for issue on behalf of the IECEX
Certification Body:

N 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 the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

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

sira
CERTIFICATION





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Manufacturer: **Yung Chan Metal Industry Co., Ltd.**
No 30 Keji 1st Road
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Additional Manufacturing location(s):

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 electrical apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/SIR/ExTR17.0079/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0018/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment is a temperature transmitter housing manufactured from either stainless steel or aluminium alloy, where the model designation determines which material is used, i.e. XDA = Aluminium Alloy & XDS = Stainless Steel.

The equipment is considered a component, and as such bears a symbol 'U' after the certificate reference. The equipment must be re-certified for Apparatus after appropriate evaluation to the listed standards on page 1 of this certificate to ensure continued compliance with the flameproof and dust exclusion requirements. Refer to the Annexe for the Schedule of Limitations.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[IECEx SIR 16.0112U Annexe Iss 0.pdf](#)

Annexe to: IECEx SIR 16.0112U Issue 0
Applicant: Yung Chan Metal Industry Co., Ltd.
Apparatus: XDA & XDS Flameproof Temperature Transmitter Housings



Schedule of Limitations

- i. Cables for entry into the device must be rated to at least 85°C.
- ii. The XDA & XDS Flameproof Temperature Transmitter Housings are considered as an Ex Component enclosure and must be re-certified as an Ex Equipment with relevant standards
- iii. A temperature classification of T6 and a maximum external surface temperature of T100°C have been allocated for this component enclosure on the basis of a maximum internal power dissipation of 10 W and an ambient temperature range of -20°C to 40°C.
- iv. IPX8 rating was tested at 1m depth (pressure of 0.1 bar) for a duration period of 1 hour;
- v. Potential Electrostatic Charging Hazard – Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the enclosure shall only be cleaned with a damp cloth;
- vi. Refer to drawing number XD0001 for details associated with the threaded cable entry hole provided in the enclosure for the accommodation of a suitably certified cable entry device.
- vii. Oil-filled circuit breakers and contactors shall not be used.
- viii. The content of this Ex Component enclosure equipment may be placed in any arrangement provided that an area of at least 40 % of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- ix. The Ex Component enclosure incorporates parts which are required to be welded as specified by the original manufacturer of the enclosure. The complete enclosure, with welded parts and internal arrangement, shall be submitted to an appropriate Notified Body/Certification Body for assessment and testing as necessary for certification as Ex equipment.

Refer to drawing numbers XD0005, XD0006, and XD0007 and the Instruction Manual for details with respect to the welding of parts. Following the required welding procedures, the enclosure shall be pressure tested at a minimum value of 11.25 bar for at least 10 seconds with no damage, permanent deformation or leakage permitted.

- x. After final assembly the probe travel must not exceed 6mm. Refer to instruction manual for details with respect to assembly and re-certification as an Ex Equipment.

Date: 27 April 2017

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Form 9530 Issue 1

Sira Certification Service

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