



IECEX Quality Assessment Report

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC SCHEME FOR CERTIFICATION TO STANDARDS FOR SAFETY OF ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES (IECEX SCHEME)

Report No : DE/TUR/QAR/14.0003/00

Date of Issue : 2014-10-01

Valid until : 2017-08-26


Product Category : Flange Immersion Heaters

Applicant : Watlow Electric Manufacturing (Shanghai) Co.,Ltd.

Manufacturing Locations : Building 5, No.358, Shenxia Road Forward High Tech Zone, Jia Ding Dist, Shanghai 201818, China. PRC

Approved for issue on behalf of the IECEx Certification Body : Mr. Andreas Maschke
Head of Certification Body

Position :

Signature : 

Date : 2014-10-01

Quality Report issued by:

TÜV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Köln

 **TÜVRheinland[®]**
Genau. Richtig.

Manufacturer (auditee) : Watlow Electric Manufacturing (Shanghai) Co.,Ltd.
Address : Building 5, No.358, Shenxia Road Forward High Tech Zone, Jia Ding Dist, Shanghai 201818, China. PRC

No. of employees : 32
include the total number of employees on site and those involved in production of Ex products

Scope of audit : initial assessment reassessment surveillance
List all applicable IECEx Test Reports (or attach copies) to which this audit applies and indicate product type.

Electrical equipment with type(s) of protection i d e m n other (specify)

Protective system

Safety, controlling or regulating device

Audit Team Leader : Mr. Zhang Xiaolong

Audit Team Leader : 

CONTENTS	
1	Summary Report
2	Introduction
3.1	Audit data
3.2	Document review
4	Individual Assessor's Report
5	Nonconformity report
6	Appendices (optional)

1 SUMMARY REPORT

Summary of observations:

The company is certified according to ISO 9001:2008 (SGS).

In addition the company is certified according to the ATEX Directive 94/9/EC – Annex VII and IECEx-Scheme 02.

Types of protection is: "d" flameproof enclosure for installation in gas areas

The organization has established, documented, and implemented a QM system pursuant to EN ISO 9001:2008 and OD 005.

Nonconformities: 1

Audit Team Leader recommendations

X QAR issued, indicating compliance with IECEx OD 005, recommending that IECEx Certificate be issued/maintained*

QAR issued, indicating general compliance with IECEx OD 005, even if minor non conformances are raised, recommending that IECEx Certificate of Conformity be issued/maintained* following receipt of satisfactory documentary evidence supporting effective corrective action. Corrective action to be verified at next surveillance visit

QAR issued, indicating Non-compliance with IECEx OD 005 due to Major Non-conformances being raised, recommending that IECEx Certificate of Conformity be issued only after a satisfactory follow-up visit. For issued IECEx Certificates of Conformity, recommendation that they be maintained providing a follow up visit is conducted within 2 calendar months*
Follow up visits are required to verify that corrective actions have been effectively documented and implemented.

QAR issued, indicating NON-compliance with IECEx OD 005, due to major Non Conformances being raised such that non-complying product may be released to the market, recommending that IECEx Certificate of Conformity be refused/suspended A further complete assessment, including site assessment to be conducted

QAR issued, indicating NON-compliance with IECEx OD 005, recommending that IECEx Certification be refused/suspended New applications are to be closed complete assessment is to be conducted. Where IECEx Certification has previously been granted, suspend or withdraw any IECEx Certificates associated with this assessment and inform the IECEx Secretary and other ACBs

Audit Team Leader:



Zhang Xiaolong

IECEX Certification Body:



Andreas Maschke

IECEX Quality Assessment Report (QAR)

CONFIDENTIAL

Audit Report No: DE/TUR/QAR/14.0003/00

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2 INTRODUCTION

Manufacturer (auditee) : Watlow Electric Manufacturing (Shanghai) Co.,Ltd.
Building 5, No.358, Shenxia Road Forward High Tech Zone,
Jia Ding Dist, Shanghai 201818, China. PRC

Scope of audit

Type A initial assessment/reassessment of manufacturer <u>with</u> a certified QS	■
Type B initial assessment/reassessment of manufacturer <u>without</u> a certified QS	□
Type C surveillance of manufacturer <u>with</u> a certified QS*	□
Type D surveillance of manufacturer <u>without</u> a certified QS	□
Type E integrated assessment, reassessment or surveillance of manufacturer to include ISO 9001	□

Audit criteria:

ISO/IEC 80079-34:2011 Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
ISO 9001:2008: See Certificate CN07/00648 from SGS —Issue date: Dec. 10, 2013—
Valid till: Dec. 10, 2016
Certificate No. IECEX CSA 09.0010X from CSA INTERNATIONAL (IECEX-Scheme)
Certificate No. Sira 10 ATEX 1155X from Sira Certification Service (ATEX)

Product(s): Flange Immersion Heaters, Series F
“d” flameproof enclosure for installation in gas areas

**Only the product covered by the CoC IECEX CSA 09.0010X is covered within this QAR.
Before any new CoC will be issued a new QAR audit must be performed.**

Date(s) and duration of audit :

ATEX / IECEX initial audit by TÜV Rheinland on 26-08-2014.
Audit team: Mr. Zhang Xiaolong and Ms. He Mei.
Duration: 1 day

Latest audits:

N/A

IECEX Quality Assessment Report (QAR)

CONFIDENTIAL

Audit Report No: DE/TUR/QAR/14.0003/00

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3.1 AUDIT DATA

Composition of audit team:

Ms. He Mei
TÜV Rheinland (Shanghai) Co., Ltd.
No.177, Lane 777, West Guangzhong Road, Zhabei District, Shanghai, 200072, P.R.CHINA

Mr. Zhang Xiaolong
TÜV Rheinland (China) Ltd.
Unit 707, AVIC Building, No.10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R. China

Interviewed representatives of manufacturer (auditee):

SAMIR DORLE	General Manager
Rick Tang	Ex Representative/ Quality Manager
Victor Wang	Production manager
Lucy. Liu	Sales
Joyce. Zhao	Purchasing

Reference documents used:

Directive 94/9/EC Annex VII
ISO/IEC 80079-34: 2011
IECEX OD 005
IEC 60079-0 General requirements
IEC 60079-1 Type of protection, Ex 'd'
Quality manual of Company (QM manual, issue date 2014-06-06)

IECEX Quality Assessment Report (QAR)**CONFIDENTIAL****Audit Report No: DE/TUR/QAR/14.0003/00**

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**3.2 DOCUMENT REVIEW**

IECEX OD 005 requirement	Assessed Y, N, N/A	Documentation ref.	NCR Ref.
4 Quality management system req.			
4.1 General requirements	Y	Document checked on site	
4.2 Documentation requirements	Y		
4.2.1 General	Y		
4.2.2 Quality manual	Y		
4.2.3 Control of documents	Y		
4.2.4 Control of records	Y		
5 Management responsibility			
5.1 Management commitment	Y	Document checked on site	
5.2 Customer focus	Y		
5.3 Quality policy	Y		
5.4 Planning	Y		
5.4.1 Quality objectives	Y		
5.4.2 Quality management system planning	Y		
5.5 Responsibility, authority & communication	Y		
5.5.1 Responsibility & authority	Y		
5.5.2 Management representative	Y		
5.5.3 Internal communication	Y		
5.6 Management review	Y		
5.6.1 General	Y		
5.6.2 Review input	Y		
5.6.3 Review output	Y		
6 Resource management			
6.1 Provision of resources	Y	Document checked on site	
6.2 Human resources	Y		
6.2.1 General	Y		
6.2.2 Competence, awareness & training	Y		
6.3 Infrastructure	Y		
6.4 Work environment	Y		

IECEX Quality Assessment Report (QAR)

CONFIDENTIAL

Audit Report No: DE/TUR/QAR/14.0003/00

TÜV Rheinland Industrie Service GmbH



DOCUMENT REVIEW (cont.)

IECEX OD 005 requirement	Assessed Y, N, N/A	Documentation ref.	NCR Ref.
7 Product realization 7.1 Planning of product realization 7.2 Customer-related processes 7.2.1 Determination of requirements related to the product 7.2.2 Review of requirements related to the product 7.2.3 Customer communication 7.3 Design & development (not in the scope of this document) 7.4 Purchasing 7.4.1 Purchasing process 7.4.2 Purchasing information 7.4.3 Verification of purchased product 7.5 Production & service provision 7.5.1 Control of production and service provision 7.5.2 Validation of processes for production & service provision 7.5.3 Identification & traceability 7.5.4 Customer property 7.5.5 Preservation of product 7.6 Control of monitoring & measuring devices	Y Y Y Y Y N/A Y Y Y Y Y Y Y Y Y Y	Document checked on site	1
8 Measurement, analysis & improvement 8.1 General 8.2 Monitoring and measurement 8.2.1 Customer satisfaction 8.2.2 Internal audit 8.2.3 Monitoring & measurement of processes 8.2.4 Monitoring & measurement of product 8.3 Control of nonconforming product 8.4 Analysis of data 8.5 Improvement 8.5.1 Continual improvement 8.5.2 Corrective action 8.5.3 Preventive action	Y Y Y Y Y Y Y Y Y Y Y	Document checked on site	

IECEX Quality Assessment Report (QAR)**CONFIDENTIAL****Audit Report No: DE/TUR/QAR/14.0003/00**

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**4 INDIVIDUAL ASSESSOR'S REPORT – Assessment of Implementation**

IECEX OD 005 requirement	Assessed Y, N, N/A	Comments	Total No. of NCR's
4 Quality management system			
4.1 General requirements	Y	The organization has established, documented, and implemented a QM system pursuant to EN ISO 9001:2008 and OD 005.	
4.2 Documentation requirements	Y		
4.2.1 General	Y		
4.2.2 Quality manual	Y		
4.2.3 Control of documents	Y		
4.2.4 Control of records	Y		
5 Management responsibility			
5.1 Management commitment	Y	The company's implementation of the standard, for which the managing director, Mr. SAMIR DORLE , is responsible, essentially corresponds to the requirements of EN ISO 9001:2008 and OD 005, in terms of both documentation and practical implementation.	
5.2 Customer focus	Y		
5.3 Quality policy	Y		
5.4 Planning	Y		
5.4.1 Quality objectives	Y		
5.4.2 Quality management system planning	Y		
5.5 Responsibility, authority & communication	Y		
5.5.1 Responsibility & authority	Y		
5.5.2 Management representative	Y		
5.5.3 Internal communication	Y		
5.6 Management review	Y		
5.6.1 General	Y		
5.6.2 Review input	Y		
5.6.3 Review output	Y		
6 Resource management			
6.1 Provision of resources	Y	The company's implementation essentially corresponds to the requirements of the EN ISO 9001:2008 and OD 005 standard in terms of both documentation and practical implementation.	
6.2 Human resources	Y		
6.2.1 General	Y		
6.2.2 Competence, awareness & training	Y		
6.3 Infrastructure	Y		
6.4 Work environment	Y		

IECEX Quality Assessment Report (QAR)

CONFIDENTIAL

Audit Report No: DE/TUR/QAR/14.0003/00

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INDIVIDUAL ASSESSOR'S REPORT (cont.)

IECEX OD 005 requirement	Assessed Y, N, N/A	Comments	Total No. of NCR's
7 Product realization 7.1 Planning of product realization 7.2 Customer-related processes 7.2.1 Determination of requirements related to the product 7.2.2 Review of requirements related to the product 7.2.3 Customer communication 7.3 Design & development (not in the scope of this document) 7.4 Purchasing 7.4.1 Purchasing process 7.4.2 Purchasing information 7.4.3 Verification of purchased product 7.5 Production & service provision 7.5.1 Control of production & service provision 7.5.2 Validation of processes for production & service provision 7.5.3 Identification & traceability 7.5.4 Customer property 7.5.5 Preservation of product 7.6 Control of monitoring & measuring devices	Y Y Y Y Y N/A Y Y Y Y Y Y Y Y Y Y Y Y Y	The company's implementation essentially corresponds to the requirements of the DIN EN ISO 9001:2008 and OD 005 standard in terms of both documentation and practical implementation. Note: The clearance gauge which is measure the gap of flameproof joint didn't been calibrated.	1
8 Measurement, analysis & improvement 8.1 General 8.2 Monitoring and measurement 8.2.1 Customer satisfaction 8.2.2 Internal audit 8.2.3 Monitoring & measurement of processes 8.2.4 Monitoring & measurement of product 8.3 Control of nonconforming product 8.4 Analysis of data 8.5 Improvement 8.5.1 Continual improvement 8.5.2 Corrective action 8.5.3 Preventive action	Y Y Y Y Y Y Y Y Y Y Y Y	The company's implementation essentially corresponds to the requirements of the DIN EN ISO 9001:2008 and OD 005 standard in terms of both documentation and practical implementation.	

5 NONCONFORMITY REPORT

NCR No: 1

See non-conformity report — 2 pages and initially issued on 26.08.2014

6 APPENDICES (optional)

additional assessor notes

summary of audit trail (e.g. who? what? when? etc.)