



IECEX
QUALITY ASSESSMENT REPORT



CONFIDENTIAL

IECEX QAR Reference No.: 14.0005 – 20.11.2014

Manufacturer : TRS s.r.o.
Include Address with post code Na Spravedlnosti 1533
530 02 Pardubice, Czech Republic

Production Site(s) audited : TRS s.r.o.
Include Address with post code Na Spravedlnosti 1533
530 02 Pardubice, Czech Republic

Product Description : Remote control receiver, remote control transmitter,
control desk

Number of Employees : Total: 9 No. involved in Ex products: 5

Scope of Audit : Initial Assessment Re-Assessment
Surveillance Assessment

List all applicable IECEX Certificates, : Will be added

Electrical equipment with type(s) of protection of : d, i
Other (specify)

Audit Team Leader : Ing. Petr Šoltys

Audit Date : 20.11.2014

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Notified Body address / Website information etc/

FTZÚ, s.p., Pikartská 7, 716 07 Ostrava-Radvanice, Czech Republic, www.ftzu.cz



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1. Summary Report

Assessment Summary and Conclusions:

(State the most important results and conclusions of the quality assessment)

The manufacturer is certified according to ISO 9001:2008. The requirements of EN ISO/IEC 80079-34 have been incorporated into the quality manual and relevant procedures. TRS is producer of remote control devices to the potentially explosive atmospheres with years of experience. Audit has done according to audit plan. Company has enabled an access to production sites and offered a requested information and documents.

Next Quality Audit due : 11/2015

Non-Conformities

(Indicate the Serial No.(s) of non-conformities recorded. Individual non-conformities are recorded on the non-conformity reports)

NCR No.(s): 01/14, 02/14

Audit Team Leader Recommendations

(Delete where not applicable)

- Certification to be issued/maintained** once satisfactory technical assessment of the product is completed and a test report is issued
- Certification to be issued/maintained*** following receipt of satisfactory documentary evidence supporting effective corrective action, and a test report is issued. Corrective action to be verified at next surveillance visit

Certification to be issued/maintained* following a satisfactory follow-up visit and verification that corrective actions have been effectively documented and implemented, and test report issued.

Certification to be refused/suspended* A further complete assessment to be conducted

Certification to be refused/suspended* Close the application/withdraw the notification and inform the Scheme Administrator

J. Kelly 20.11.2014

**Audit Team Leader Signature
And Date**

Travis 20.11.2014

**Quality & Certification
Manager**

*Sign to accept Audit Team Leader
recommendations and QAR*



2. Audit Information

2.1 Scope of Audit:

- Type A initial assessment/~~reassessment~~ of manufacturer with a certified QMS*
 Type B initial assessment/reassessment of manufacturer without a certified QMS
 Type C surveillance of manufacturer with a certified QMS*
 Type D surveillance of manufacturer without a certified QMS

* where manufacturer has a certified quality system, include certification/registration body, date of registration, certificate No. and scope or append a copy of the certificate (including scope)

2.2 Audit Criteria : EN ISO/IEC 80079-34

List any other reference documents, against which Audit was conducted in addition to IECEX OD 005

2.3 Date(s) and Duration of Audit : 1 day – 20.11.2014

Include total number of auditor days on site

2.4 Composition of Audit Team:

Name	Position	Role in Audit (Sole Auditor, Team Leader, Auditor, Technical Specialist, etc)
Mr. Soltys	Auditor	Sole Auditor

2.5 Interviewed Representatives of Manufacturer (Auditee):

Name	Position
Mr. Martin Tomášek	Quality manager
Mr. Sehnoutek	Designer

2.6 Critical Suppliers: (List critical suppliers reviewed during audit of supplier evaluation)

Name of Supplier	Critical item or service provided
AWOS s.r.o.	PCB populating
T-Machinery	Ex d, machining, pressure testing



3. Documentation Review and Assessment of Implementation

(For surveillance audits, major document changes only may be reviewed)

IECEX OD005 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	NCR Ref.
4.	Quality Management System			
4.1	General requirements	Y	ISO 9001	
4.2	Documentation requirements	Y	ISO 9001	
4.2.2	Quality Manual	Y	+ requirements of EN ISO/IEC 80079-34	
4.2.3	Control of documents	N	Technical documentation is controlled and visually marked (suffix Ex), Procedure 80079-34, there is no annually verification of standards and regulations	01/14
4.2.4	Control of records	Y	10 years archiving, Procedure 80079-34	
5.	Management Responsibility			
5.1	Management commitment	Y	ISO 9001	
5.2	Customer focus	Y	ISO 9001	
5.3	Quality Policy	Y	ISO 9001	
5.4	Planning & Quality objectives	Y	ISO 9001, QM – 5.4, quality objectives, audits	
5.5	Responsibility, authority, internal communications	Y	Mr. Tomášek – quality manager, production director	
5.6	Management review	Y	+ Ex production, Ex reclamation, 1/year	
6.	Resource Management			
6.2	Human Resources	Y	ISO 9001, Ex training, Procedure 80079-34	
6.3	Infrastructure	Y	ISO 9001	
6.4	Work environment	Y	ISO 9001	
7.	Product Realisation			
7.1	Planning of product realisation	Y	ISO 9001	
7.2	Customer requirements	Y	Evaluation of purchase order, Mr. Tomášek, one customer (T- Machinery)	
7.2.3	Customer communication	Y	ISO 9001	
7.3	Design and development	N/A		
7.4	Purchasing	Y	Evaluation of suppliers, input control, Procedure 80079-34	
7.5	Identification & traceability	N	Serial numbers + evidence of customer, output control protocols, document D1, there is no protocol of PCB verification	02/14
7.6	Control of monitoring & measuring devices	Y	Calibrated measuring gauges (electrical + thread calibre)	
8.	Measurement, Analysis & Improvement			
8.2.1	Customer satisfaction	Y	No Ex reclamations	



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IECEX OD005 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	NCR Ref.
8.2.2	Internal Audit	Y	+ EN ISO/IEC 80079-34, 1/year	
8.2.3/4	Monitoring & measurement of processes and product	Y	Functional test, el. parameters, thread of bushings, pressure testing	
8.3	Control of non-conforming product	Y	Commitment to inform ExCB (FTZÚ), Procedure 80079-34, evidence of nonconformity/reclamation	
8.4	Analysis of data	Y	ISO 9001	
8.5	Corrective & Preventive action	Y	ISO 9001	

Annex A: Information relevant to particular types of protection

A.2	General - Material composition of (parts of) enclosures	Y	Declaration of conformity from supplier	
A.3 Ex d - flameproof enclosures				
A.3.1	Castings	N/A		
A.3.2	Machining	Y	Drawing TK 300 011 produced by T-Machinery – declar. of conformity	
A.3.3	Cemented joints and potted assemblies	N/A		
A.3.4	Routine pressure testing	Y	TP 200 302-receiver DOS 2000 P16Ex; TE 300 070-antenna bushings KAP 50-M10, TP 300 050- receiver DOS 241 UP Ex	
A.3.5	Flanged joints	Y	TK 300 020, instruction for use	
A.3.6	Sintered components	N/A		
A.4 Ex i - intrinsic safety				
A.4.1	Components for intrinsically safe products	Y	Initial inspection, visual verification, approved documentation	
A.4.2	Printed circuit boards (PCB)	Y	PCB populating by Awos	
A.4.2.1	Non-populated PCB's	Y	Declaration of conformity (material confirmation)	
A.4.2.2	Populated PCB's	Y	PCBs populated by Awos with Declaration of conformity, approved documentation, Verification of components, visual inspection, placing, functional test	
A.4.3	Sub-assemblies and assemblies	Y	Approved documentation only	
A.4.4	Tests	Y	100% output check (el. parameters, functional), records to output protocol	
A.4.5	Intrinsically safe circuits and assemblies housed in Ex d, Ex p or Ex q enclosures	Y	Approved documentation only	
A.5 Ex e – increased safety				
A.5.1	Ingress protection	N/A		
A.5.2	Internal wiring and contact integrity	N/A		
A.5.3	Rotating machines	N/A		
A.5.4	Windings	N/A		
A.5.5	Tests	N/A		



A.6 Ex p – pressured apparatus

A.6.1	Ingress protection	N/A
A.6.2	Tests	N/A

A.7 Ex m – encapsulation

A.7.1	Production documentation	N/A
A.7.2	Tests	N/A

A.8 Ex o – oil immersion

-	Tests	N/A
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A.9 Ex q – powder filling

A.9.1	Material control	N/A
A.9.2	Filling	N/A
A.9.3	Ingress protection	N/A
A.9.4	Tests	N/A

4. Observations

Additional assessor notes, Summary of audit trail (e.g. Who? What? Where? When? etc.) (Could be positive, negative, improvement, etc). Include brief comments on each department/function audited.

See in folder FTZÚ 14 ATEX Q 007

Clause 4

The quality management system has been approved by LL-c
ISO9001 Certificate Registration No. 42007478
Expiration date:2017.02.09

Procedure 80079-34, technical documentation is controlled in electronic system. Procedure 80079-34 - control of documents, archiving time is 10 years.

Clause 5

Quality management system is ensured by internal and external audits.
Last management review was done in 2014-01-17.

In management review will be evaluated an external audit by IQNet, FTZU and reclamations. There is no reclamation on type of protection.

Responsibility and authority are defined in Procedure 80079-34 for Mr. Tomášek.

Clause 6

Training plan for 2014 is available for inspection. Records shows effective training has been done for types of protection in 2014.11.04.

Procedure 80079-34.

Clause 7

Procedure 80079-34.

Evaluation of purchase order, Mr. Tomášek-production director, one customer only (T-Machinery).

Evaluation of important suppliers is done once a year (quality, price, term). 2014.10.17.

Input control – for PCBs a confirmation of quality, for metallurgical material – material confirmation (certificate) , for Ex components (sight glass) – declaration of conformity.

Production: after issuing of IECEx certificates - pressure testing + dimensional verification with declaration of conformity(T-Machinery), verification of thread, electrical + functional tests, records in test protocol.

Identification of product is ensured in test protocol, traceability to customer according to product serial number + identification of PCB numbers.

To customer (T-Machinery) is supplied a user manual with special conditions X.

Calibration is done by external accreditation calibration laboratories. All measuring gauges important for type of protection are calibrated.



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Clause 8

The internal audit was performed on 2014-11-14. Clauses of IEC80079-34:2011 are evaluated.

None nonconformity was raised.

Routine tests are done according to report (approved documentation) – pressure testing, verification of mechanical diameters, thread, electrical + functional tests, records are written to test protocol and archived minimum 10 years.

The label is attached after final test.

Procedure 80079-34 – includes a commitment to inform the ExCB and customers about supplied unsafe nonconforming product. There is no reclamation on type of protection.