

SGS

Expertise

**Expert Opinion of the Notified Body on the Conformity Assessment
according to Article 10.5 of R&TTE Directive 1999/5/EC**

**of the Notified Body SGS
EU Identification Number 2150**

recognized by



Bundesnetzagentur

BNetzA-bS-09/51-57

Registration-No.	ZE0060004, Replacement of Expertise No: ZE0060001
Certificate Holder	TELE RADIO AB
	Datavägen 21 SE-436 32 Askim, Sweden
Product Designation	R00004-01, R4-1, TG-R4-1, R00004-06, R4-6, TG-R4-6, R00004-21, R4-21, TG-R4-21, T00009-2, T9-2, TG-T9-2
Product Description	Receiver/Transmitter, Remote radio control unit on the machine

Opinion on the Essential Requirements

Article 3.1a): Health and Safety	EN 50371 (2002) EN 60950-1:2006 +A11:2009 + A1: 2010	compliant
Article 3.1b): Electromagnetic Compatibility	ETSI EN 301 489-3 (v.1.4.1) ETSI EN 301 489-1 (v.1.8.1)	compliant
Article 3.2: Effective Use of the Radio Spectrum	ETSI EN 300 220-2 (v.2.1.2)	compliant

Marking

EC conformity marking

Marking Example according to R&TTE Directive 1999/5/EC, § 12:

CE 2150

This certificate is issued in accordance with the Directive 1999/5/EC of the European Parliament and the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity dated 9th March 1999 and is only valid in conjunction with the following annex (1 page(s)).

approved by:

Date

Signature

Werner
Head of Notified Body EMC

Apr 04, 2011

i. A. W. Werner

Nakpane
Deputy Head of Notified Body R&TTE

Apr 04, 2011

i. V. Nakpane

This document was signed electronically.

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The certificate shall not be reproduced except in full without the written approval of the issuing notified body

ANNEX

Product Characteristics:

Operating frequency:	433.075 - 434.775 MHz
Output power (ERP):	-14.26dBm
Antenna:	PCB (internal)
Modulation:	2FSK
Channel spacing:	25 kHz
Temperature:	-10°C to +55°C
Power supply:	TX : DC 3.7V (rechargeable battery) RX: AC 48-230V, 12-24V; DC 12V, 24V

Product Identification:

The EUT is a half duplex radio communication system. The product family consists of a transmitter and a receiver of the following models:

Transmitter: T00009-2, T9-2, TG-T9-2

All transmitter models are electrically identical. The only difference is the product numbers

Receiver: R00004-01, R4-1, TG-R4-1, R00004-06, R4-6, TG-R4-6, R00004-21, R4-21, TG-R4-21

R00004-01, R00004-06, R00004-21, R4-1, R4-6 and R4-21 are internal product number, whereas TG-R4-1, TG-R4-6 and TG-R4-21 are official product numbers.

The electrical circuit design, layout and components used for all receivers models are identical, except for the models R00004-01, R00004-21, where parts of the electrical circuit design are been removed but without any impact on the RF power.

Conformity Details:

Evaluated test reports		
Requirement	test report number, date & laboratory	Result
Safety ¹	GZES101100339601, 2011-02-16, SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou, China GZES101100339501, 2011-02-22, SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou, China	Pass
Health	GZEM101100266003, 2011-02-16, SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou, China	Pass
EMC	GZEM101100266002, 2011-02-16, SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou, China	Pass
Radio Spectrum	GZEM101100266001, 2011-03-28, SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou, China	Pass

¹⁾ The review scope for safety requirements only covers the requirements contained in the LVD directive 2006/95/EC.

The Notified Body SGS Germany GmbH is of the opinion that it is properly demonstrated that the above identified apparatus complies with the essential requirements of the directive 1999/5/EC as given in the above scope.

Remarks:

This replacement corrects the lower operating frequency and replaces EIRP with ERP.