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FCC SAR Exclusion Report

Product name : Global Reader Mullion

Applicant : Novar GmbH – Honeywell

Security group

FCC ID : UA20T3XXXBHON

ISED ID : 6587A-OTXXXBH

Test report No.: 190202012 FCC RF exposure Ver 1.0

laboratory certification approvals



Laboratory information

Accreditation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2005. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number LO21 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001.

Telefication is a Wireless Device Testing laboratory recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

The Industry Canada registration number for the 3 meter test chamber of Telefication is: 4173A-1.

Telefication is a registered Conformity Assessment body (CAB) under the Japan-EC MRA (Agreement on Mutual Recognition between Japan and the European Community). The registration number is: 201.

Documentation

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Netherlands.

Testing Location

Test Site	Telefication BV		
Test Site location	Edisonstraat 12a		
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	The Netherlands		
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Revision History

Version	Date	Remarks	Ву
v1.0	19-12-2019	Release version	PvW



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1 General Description

1.1 Applicant

Client name: Novar GmbH – Honeywell Security Group

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Württemberg, Germany

Zip code:

Telephone: +49 74318010
E-mail: Tobias König

Contact name: Tobias.Koenig@honeywell.com

1.2 Manufacturer

Manufacturer name: Novar GmbH – Honeywell Security Group

Address: Johannes-Mauthe-Straße 14, Albstadt – Baden-

Württemberg, Germany

Zip code:

Telephone: +49 74318011210 E-mail: Klaus Wank

Contact name: Klaus.wank@honeywell.com

1.3 Tested Equipment Under Test (EUT)

Product name:Global Reader MullionBrand name:Novar/HoneywellFCC ID:UA2OT3XXBHONIC ID:6587A-OTXXXBHProduct type:Wireless card reader

Model(s): See next page

Batch and/or serial No. -Software version: -Hardware version: --



1.4 SAR Measurement Evaluation

1.4.1 SAR Testing Exclusions

Calculation method of RF Safety Distance:

$$PD = \frac{Pout * G}{4\pi r^2}$$

Where:

PD = Power Density in W/m^2 Pout = Output power in mW G = Gain of antenna

R = Distance between observation point and centre of the radiator in cm

Antenna

Technology	LF (134 kHz)	HF (13.56 MHz)) BLE	
Antenna type	PCB loop	PCB loop	Ceramic chip	
	antenna	antenna	antenna	
Antenna gain	NA	NA	0.5 dBi	

Calculation results

Technology	Frequency (MHz)	Max power (mW)	Antenna gain (numeric)	Distance (cm)	Power density (mW/cm²)	Limit (mW/ cm²)	MPE ratio	MPE ratio limit
BLE	2400- 2483.5	0.36	1.1	20	0.00008	1.0	0.00008	≤ 1.0

Technolog Y	Frequency (MHz)	Max field strength (dBμV/m)	Distance (cm)	Field strength @ 0.02m (V/m) ¹	Limit (V/m)	MPE ratio	MPE ratio limit
LF RFID	0.134	-4.59 @	3	0.009	No requirement in this frequency		
		300m			range		
HF RFID	13.56	47.78 @	3	0.37	60.8	0.006	≤ 1.0
		30m					

Note 1: calculations made assuming far field behaviour

1.5 Summary

Since the exposure to RF radiation is lower than the Maximum Permissible Exposure for general population/uncontrolled exposure, no SAR testing is required.