



**VELUX A/S Accessories**  
Bækgårdsvej 40, 6900 Skjern

# **Human Exposure – SAR**

EN62233  
RSS-102  
FCC

*Manufacture declaration*

Version: 1.04

Last modified: 21-04-2015

 <b>VELUX</b> <sup>®</sup> <b>VELUX A/S Accessories</b> Bækgårdsvej 40, 6900 Skjern	<b>SAR</b>	1.04
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### 1.1 Introduction

Human Exposure (SAR) is not relevant for low power radio devices since the power is very low.

### 1.2 Low power radio used by VELUX

Maximum radiated output power: 13 dBm = 20 mW

#### Limit in EN62233 (EU):

Worst case scenario:

Even if all power is absorbed by the human body is it not possible to exceed the limit in the EN62233.

Full body average SAR:	80 mW/kg
Localized SAR (head and trunk)	2 W/kg

This is not possible with 20 mW output power

#### Limit in RSS-102, 2.5.2 (Canada):

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except at or above 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 5 W.

E.i.r.p are far below 5W so RF exposure evaluation is not required.

#### Limit in FCC (US):

The FCC limit for public exposure from (RF) energy is an SAR level of 1.6 watts per kilogram.

Maximum radiated output power of 20 mW are far below 1.6W so RF exposure evaluation is not required.

### 1.3 Conclusion

The standard EN62233, RSS-102 and FCC for Human Exposure (SAR) is approved without the need of measurements due to very low output power.

VELUX A/S, April 21, 2015



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