

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	Wireless sensor unit
Brand name:	Creowave
Type / Model:	S7001, S7002
Manufacturer:	Creowave Oy
By request of:	Creowave Oy

REQUIREMENT

CFR 47 §1.1310
RSS-102 issue 5 (2014)

CALCULATIONS

Highest output power to antenna is +20dBm
With 4.8 dBi antenna gain4 EIRP is 24.8 dBm or 302 mW

The manual recommends that the operator is not closer than (r) 20 cm to the transmitter's antenna.

A worst case calculation is as follows:

$$S = \frac{EIRP}{4 \times \pi \times r^2}$$

Maximum power density is
 $S = 0.302 / (4 \times \pi \times 0,2^2) = 0,60 \text{W/m}^2 = 0,060 \text{mW/cm}^2$

Limit:

CFR 47 §1.1310 (e) table 1 Limits for General Population/Uncontrolled Exposure: 1mW/cm^2

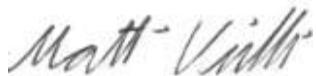
RSS-102 section 2.5.2: states that at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} \text{ W}$ (adjusted for tune-up tolerance), where f is in MHz;

Maximum EIRP 302 mW < 2,67 W at 2405 MHz

The requirements are fulfilled.

Intertek Semko AB, Radio& EMC

Date of issue: 2015-03-24



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