

Subject: Höft & Wessel AG FCC ID: PGMHW86600001

RF Safety Calculation

Determination of permitted Power Density at 2.4 GHz for 100 mW / 1W according IEEE Std. C 95.1

HW 8660

Manufacturer: Höft & Wessel

1. Power density

2. Calculated power density values for 100 mW (20 dBm) and 1 W (30 dBm)

distance	Power density mW / cm ²	
cm		
	100 mW	1 W
20	0,02	0,2
5	0,32	3,2

Concerning the measured duty cycle of ..17.8... % the device provides an averaged radiated power of less then ..20.. mW.

3. Limit according IEEE Std. C 95.1

Frequency range 300 - 3000 MHz: $S_L = f / 1500$

For 2.4 GHz: $S_{\perp} = 1.6 \text{ mW / cm}^2$

4. Assessment

The sample complies to the MPE requirements because the radiated output power provide a power density as calculated according to the formula above, below the requested limits.



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Hannover, 04/18/01

KOE

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product

Vectron POS Base Station / US (HW8660 / US)
is considered to be a mobile transceiver.

The conducted output power is maximum 20 dBm. The internal antennas used for this mobile transmitter must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

A safety statement concerning minimum separation distances from enclosure of the Base Station will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report G0M20012-3598-T-47 and the accompanying calculations.

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