



HÖFT & WESSEL

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Hannover, 02/09/01
KOE

Applicant's declaration of implementation

FCC, portable part

It's hereby declared that the product:

Vectron POS Mobile Printer / US (HW90195 / US)

fulfills the requirement in FCC test relating to the antenna type.

The Printer / US confirm to FCC recommendation with internal antenna type:

simple wire antenna (1/4 wave antenna), directly soldered to radio module, gain of the antenna 0dBi, frequency range 2.4...2.5GHz.

The mounting of the antenna is fixed to the radio module and no other antenna should be used.

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Place: Hannover

Date: 02/09/01

Signature:

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technical project manager

HW90195Declimpl.doc

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

HW90195

Manufacturer: Höft & Wessel

1. Power density

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

P_r - radiated power
 r - distance

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

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

Concerning the measured duty cycle of ..4,4... % the device provides an averaged radiated power of less then ..5.. mW.

3. Limit according IEEE Std. C 95.1

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

For 2.4 GHz: $S_L = 1,6 \text{ mW / cm}^2$

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.