

Groenlo, 27 May 2013

Declaration on radiation safety standard conformance

Return address: PO Box 6, 7140 AA Groenlo, The Netherlands

American Certification Body
Attn.: Mrs. M. Bosley
Certification Department
6731 Whittier Avenue, Suite C110
McLean, Virginia 22101
USA

We, N.V. Nederlandsche Apparatenfabriek "Nedap", declare that the following product:

Description : UHF Reader with antenna !D Gate operating on 902-928 MHz
FCC ID : CGDSTOREIDG
Manufacturer : N.V. Nederlandsche Apparatenfabriek "Nedap"
Brand : Nedap
Model : !D Gate Region 2

has a maximum conducted peak power of 28.5 dBm equals 707.9 mW. With an antenna gain of 5.8 dBi (3.802x) this comes down to 2691 mW peak in the frequency range of 902 – 928 MHz. which means that the power density at 20 cm distance can be calculated as follows :

$$S = \frac{P_{\text{peak}}}{4 \cdot \pi \cdot R^2} \quad (\text{power density})$$

$$P_{\text{peak}} = 2691 \text{ mW}$$

$$S = \frac{P_{\text{peak}}}{4 \cdot \pi \cdot R^2} = \frac{2691}{4 \cdot \pi \cdot (20\text{cm})^2} = 0.535 \text{ mW/cm}^2$$

The limit is 0.601 mW/cm² (902 MHz/1500)

This means that according to OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01), the equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of 47 CFR Part 15.247 (b)(5).

N.V. Nederlandsche Apparatenfabriek "Nedap"



Jacques Hulshof
Approval Management

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