

Product name: NDB01  
Manufacturer: NETATMO  
FCC Id: N3A-NDB01

### **Prediction of MPE limit at a given distance**

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density  
P = power input to the antenna  
G = power gain of the antenna in the direction of interest relative to an isotropic radiator  
R = distance to the center of radiation of the antenna

#### **Transmitter n°1 WIFI**

Maximum peak output power at the antenna terminal:	<u>26,27</u>	(dBm)
Maximum peak output power at the antenna terminal:	<u>423,642966</u>	(mW)
Antenna gain(typical):	<u>1,4</u>	(dBi)
Maximum antenna gain:	<u>1,380384265</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>2437</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm <sup>2</sup> )
<b>Power density</b> at prediction frequency:	<b>0,116340</b>	(mW/cm <sup>2</sup> )
Maximum allowable antenna gain:	<b>10,74269855</b>	(dBi)

#### **Transmitter n°2 BLE**

Maximum peak output power at the antenna terminal:	<u>8,29</u>	(dBm)
Maximum peak output power at the antenna terminal:	<u>6,745280277</u>	(mW)
Antenna gain(typical):	<u>1,4</u>	(dBi)
Maximum antenna gain:	<u>1,380384265</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>2442</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm <sup>2</sup> )
<b>Power density</b> at prediction frequency:	<b>0,001852</b>	(mW/cm <sup>2</sup> )
Maximum allowable antenna gain:	<b>28,72269855</b>	(dBi)

Note: Transmitter n°1 & transmitter n°2 can't transmit simultaneously