

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: 26,27 (dBm)
Maximum peak output power at the antenna terminal: 423,642966 (mW)
Antenna gain(typical): 1,4 (dBi)
Maximum antenna gain: 1,380384265 (numeric)
Prediction distance: 20 (cm)
Prediction frequency: 2437 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0,116340 (mW/cm^2)

Maximum allowable antenna gain: 10,74269855 (dBi)

Transmitter n°2 BLE

Maximum peak output power at the antenna terminal: 8,29 (dBm)
Maximum peak output power at the antenna terminal: 6,745280277 (mW)
Antenna gain(typical): 1,4 (dBi)
Maximum antenna gain: 1,380384265 (numeric)
Prediction distance: 20 (cm)
Prediction frequency: 2442 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0,001852 (mW/cm^2)

Maximum allowable antenna gain: 28,72269855 (dBi)

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