

Product name: PHS8-P  
 Manufacturer: TRIMBLE EUROPE BV  
 FCC Id: NZI-110610

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

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

$$S = \frac{PG}{4\pi R^2} \quad (\text{formula 1})$$

$$PG = \frac{(Ed)^2}{30} \quad (\text{formula 2})$$

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

PG = Effective Isotropic Radiated Power (EIRP)  
 E = Electric field measured at distance R distance  
 d = measurement distance

**Transmitter n°1a (GSM: 850 MHz)**

FCC ID: NZI-110610  
 Maximum peak output power at the antenna terminal: 33,80 (dBm)  
 Maximum peak output power at the antenna terminal: 2398,832919 (mW)  
 Antenna gain(typical): 3,92 (dBi)  
 Maximum antenna gain: 2,466039337 (numeric)  
 Prediction distance: 30 (cm)  
 Prediction frequency: 824,2 (MHz)  
 MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310): 0,549 (mW/cm<sup>2</sup>)  
 Power density at prediction frequency: 0,523055 (mW/cm<sup>2</sup>) (formula 1)

**Transmitter n°1b (GSM: 1900 MHz)**

FCC ID: NZI-110610  
 Maximum peak output power at the antenna terminal: 30,50 (dBm)  
 Maximum peak output power at the antenna terminal: 1122,018454 (mW)  
 Antenna gain(typical): 2,51 (dBi)  
 Maximum antenna gain: 1,782378767 (numeric)  
 Prediction distance: 30 (cm)  
 Prediction frequency: 1850,2 (MHz)  
 MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310): 1 (mW/cm<sup>2</sup>)  
 Power density at prediction frequency: 0,176827 (mW/cm<sup>2</sup>) (formula 1)

**Transmitter n°2 (Bluetooth: 2402-2480 MHz)**

FCC ID: XF6-M15SB  
 Maximum peak output power at the antenna terminal: 18,92 (dBm)  
 Maximum peak output power at the antenna terminal: 77,98301105 (mW)  
 Antenna gain(typical): 4,1 (dBi)  
 Maximum antenna gain: 2,570395783 (numeric)  
 Prediction distance: 30 (cm)  
 Prediction frequency: 2402 (MHz)  
 MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310): 1 (mW/cm<sup>2</sup>)  
 Power density at prediction frequency: 0,017723 (mW/cm<sup>2</sup>) (formula 1)

Transmitter N°1a + Transmitter N°2 : [Pd(1a)/LPd(1a)] + [Pd(2b)/LPd(2b)] = 0,97 <1  
 Transmitter N°1b + Transmitter N°2 : [Pd(1b)/LPd(1b)] + [Pd(2b)/LPd(2b)] = 0,19 <1