

RF exposure analysis for the equipment Polar M450 (FCC ID: INW1F; IC: 6248A-1F)

The output power of the device is extremely low (5.4 mW e.i.r.p.) and far below the 10 mW SAR exclusion threshold for 2.4 GHz frequency band as detailed in Appendix A of KDB 447498 D01 General RF Exposure Guidance v05r01, 4.3.1 1).

The device is a cycling computer, which is intended to be mounted to the bicycle handle bar with the mount provided in the sales box. The applicable separation distance for this kind of device is more than 10 mm. Separation distance of 10mm is used in the calculation below.

$$\left[\frac{5.4mW}{10mm} \right] * [\sqrt{2.440GHz}] = 0.84 \leq 3.0$$

The output power of the device (5.4 mW e.i.r.p., 2.4mW conducted) is also below the 7mWatt output power threshold for 10mm separation distance set in section 2.5.1 of RSS-102.

For that reason the equipment is categorically excluded from routine environmental evaluation for RF exposure and it is deemed to comply with FCC and IC limits for exposure to electromagnetic fields.

Signed on behalf of Polar Electro Oy in Kempele on May 29th, 2015.



Antti Häggman
Specialist, Antti Häggman
Tel: +358(0)8 5202 100
Fax: +358(0)8 5202 220
Email: antti.haggman@polar.com
Address: Polar Electro Oy
Professorintie 5, FIN-90440 Kempele, Finland