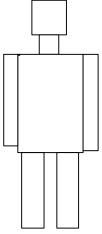
General population/uncontrolled exposure MPE

The PC0088 Wireless is a frequency hopping spread spectrum transmitter operating in the frequency band of 902 MHz to 928 MHz with 0.010 watts of output power. Per table 1 of 1.1307, paragraphs 1.1310 and 2.1093 of CFR 47, evaluation for this device is as follows. Due to the location of the antenna, normal operating conditions and use, the unit will satisfy the requirements for RF Exposure. Calculations are made here for completeness.

SPECIFIC ABSORPTION RATE CALCULATION

Calculations per 2.1093 of CFR 47.

These calculations are based upon a typical human figure as approximated below. The height is 5' 8'' (173 cm.) and the weight is 160 lbs. (72.6kg).



The calculated absorption cross section for this figure is 143 cm squared.

CALCULATED GENERAL POPULATION/ UNCONTROLLED EXPOSURE SAR

Per 1.1310, the requirement for power density in general population/uncontrolled exposure is f/1500, which equates to 0.6 mW/cm² calculated for 915 MHz. This amount to be averaged over a time period of 30 minutes. The inherent design of this product would require the antenna to be permanently mounted at a distance much grater than the 20 cm used for this calculation. The 20 cm distance was used to show compliance only.

 $S = PG/(4piR^2)$

Where S = power density in mw/cm²; P = input power to antenna in mw; G = power gain of antenna; and R = distance from antenna in cm; pi = 3.14159.

For a minimum distance of 20 centimeters and 0.010 watts (10 mW) operation with the supplied antenna with a numeric gain of one, S is calculated as $1.9894\text{E-6} \text{ mw/cm}^2$. S = $10(1)/(4\text{pi}(20)^2) = 1.9894\text{E-6} \text{ mw/cm}^2$

Per 2.1093 the limit for general population/Uncontrolled exposure is 0.08 W/kg as averaged over the whole body. For a body cross sectional area of 143 cm squared, (1.9894E-6)(143) = 284.48E-6 mw is absorbed. For a body mass of 72.6 kg, this is 284.48E-6/72.6 = 3.9185E-6 mw/kg = 3.9185E-9 w/kg.

This is well within the 0.08 w/kg limit prescribed for general population/uncontrolled exposure as prescribed by CFR 47 paragraph 2.1093.

ROGERS LABS, INC. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Digital Monitoring Products, Inc. MODEL: PC0088 Wireless Test #:040726 FCC ID#: CCK PC0088 Test to: FCC Parts 2 and 15C Page 1 of 1 DMPPC0088RExp.doc 7/27/2004