

RF Exposure Statement

No. : 22KE0008-YK

Applicant : FUKUDA DENSHI
Type of Equipment : TEREMETRY TRANSMITTER MODULE
Model No. : HLX-561
FCC ID : DV8HLX561A

RF Exposure Statement:

Fukuda Denshi Model : HLX-561 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(b).

Fukuda Denshi Model : HLX-561 has 0.85mW of conducted Peak output power and 1.08mW of EIRP.(Antenna gain : 0.4dBi)

According to RF output power of this module transmitter, values for both Conducted peak output power and EIRP are below 5mW. This kind of equipment hardly ever go over SAR value limited of 1.6W/Kg for public resident which is regulated by "OET Bulletin65, Supplement C".

Notice in Installation Manual

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body(excluding extremities : hands, wrists, and feet). and must not be co-located or operated with any other antenna or transmitter.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "HLX-561" as calculated from FCC OET 65 Appendix B, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0m W/cm² uncontrolled exposure limit. The Fires formula used was:

$$S = (P * G) / (4 * \pi * r^2) \quad \text{or} \quad r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = 1.0 mW/cm² for 2400 MHz

P = 0.85 mW (Maximum Conducted Power)

G = 1.04($\lambda/4$ mono-pole antenna gain : Converted absolute value)

r = Minimum safe distance from antenna (cm)

For: HLX-561 r = 0.27 cm

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