

FCC ID: B5D-CPE50MW
RF Exposure Statement for Telex Model 2472AA:

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 40cm (15.75 inches) between the radiator and your body.

RF Exposure Calculations:

The following information provides the minimum separation distance for the 18 dBi antenna provided as an integral part of **Telex Model 2472AA** CPE product, as calculated from **FCC OET 65 Appendix B, Table 1B** Guidelines 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 1.0 mW/cm² uncontrolled exposure limit. The formula used was:

$$S = (P_o * G) / (4 * \pi * r^2) \text{ or } r = \text{SQRT} [(P_o * G) / (4 * \pi * S)]$$

Where S = 1.0 mW/cm² for 2400 MHz

Where P_o = 50 mW (Peak RF)

Where G = 63.1 (numeric equivalent to 18 dBi antenna gain)

Where r = Minimum Safe Distance from antenna (cm)

For Telex Model 2472AA, r = 15.8 cm (6.24 inches)

Notes:

1. The minimum safe distance is based on a conservative “worse case” prediction, i.e. using the formula shown above and no duty factor. In practice the minimum distance will be much shorter. (Ref. 2)
2. The minimum safe distance has been calculated for the maximum allowed Power Density (S) limit of 1.0 mW/cm² in the frequency range 1500-100,000 MHz for uncontrolled environments (Ref. 2).

References:

1. FCC Part 15, sub-clause 15.247 (b) (4) (i)
2. FCC OET Bulletin 65, Edition 97-01
3. FCC Supplement C to OET Bulletin 65, edition 01-01