

RF Exposure / MPE Calculation

No. : 30CE0152-HO-03

Applicant : Omron Corporation Kusatsu Factory
Type of Equipment : DeviceNet Wireless Units
Model No. : WD30-ME
FCC ID : VM6WD30
IC Number : 850L-1032210A

Omron Corporation Kusatsu Factory declares that Model : WD30-ME
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "WD30-ME" as calculated from FCC OET Bulletin 65 Appendix A, 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 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 5.73 mW (Maximum peak output power)
G = 1.52 Numerical Antenna gain; equal to 1.83 dBi
r = 20.0 cm

For: WD30-ME

$$S = 0.00174 \text{ mW/cm}^2$$

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