



## RF EXPOSURE INFORMATION

**Model: 5XESS**  
**FCC ID: EO95XESS**  
**IC ID: 864D-5XESS**

### General Information

Applicant: Itron, Inc.  
Device Category: Fixed  
Environment: General / Uncontrolled Exposure

### Technical Information

Antenna Type: Omni  
Antenna Gain: 0 dBi  
Transmitter Power (EIRP): 92.47 mW  
Frequency: 909.8 MHz  
Exposure Conditions: 20 centimeters (0.2 m)  
FCC Limit:  $f / 1500 = 0.61 \text{ mW/cm}^2$ ; Canadian Limit:  $f / 150 = 6.1 \text{ W/m}^2$

### MPE Calculation

Power Density:  $P_d = (\text{mW/cm}^2) \text{ or } (\text{W/m}^2) = \frac{P \times G}{4 \times \pi \times R^2}$   
 $P = 92.47 \text{ mW (0.09247 W)}$   
 $G = 0 \text{ dBi} = 1$   
 $R = 20 \text{ cm (0.2 m)}$   
 $P_d = 0.0184 \text{ mW/cm}^2 (0.184 \text{ W/m}^2)$ ; (minimum safe distance is 3.5 cm or 0.035 m)

### Use Guidelines

The installation manual contains the following text about compliance with the FCC RF exposure requirements:

#### **RF EXPOSURE**

*To comply with FCC and Industry Canada requirements, maintain a separation distance of at least 20 cm between the antenna and all persons.*

### Conclusion

When installed per the manufacturer's instructions, this device complies with the MPE requirements by providing adequate separation between the radiating structure of the device and the general / uncontrolled population.

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