

RF Exposure Comparison of Smart Meters to Other Commonly Used Devices

The use of radio frequencies (RF) in consumer products such as cellular phones and wireless routers has increased considerably over the past decade, and continues to increase. Although Smart Meters utilize RF technology, by staying within regulated requirements, transmitting infrequently, and remote placement, they present significantly lower RF exposure for consumers than many other products that are used daily without concern.

In the US, the FCC establishes the requirements for use of the RF spectrum and acceptable exposure limits for the public. Honeywell Smart Meters comply with and exceed these requirements, as well as international requirements set by global bodies. Typical exposures from Honeywell Smart Meters are well below the most conservative limits.

Smart Meters send information about electricity use to utilities by RF signals. The exposure from Smart Meters is much lower when measured over time than other common sources for two reasons:

- 1) infrequent signal transmission, and
- 2) distance from the source.

Why Smart Meters?

Smart Meters bring many benefits to consumers through operational efficiencies and enhanced service. A few examples of the many benefits are improved energy management, minimized utility visits to your home through remote meter reading and remote turn-on and turn-off capabilities, as well as improved outage response. Deferred generation and transmission capital expenditures for utilities may defer rate increases and provide for a cleaner environment, while benefits such as optional load control and new rate designs can help reduce costs during periods of peak demand.

Find Out More

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Honeywell Smart Energy

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Smart Meter
900 MHz radio



Baby Monitor
7 x greater



Wii Remote Controller
30 x greater



Game Controller with WiFi
180 x greater



WiFi Access Point
400 x greater



Cordless Phone
1,000 x greater



Cell Phone
10,000 - 10,000 x greater

Typical values based on FCC 47CFR1.1310, which averages exposure over 30 minutes of usage. Comparative data for Honeywell Smart Meters provided by Honeywell.