

1. Antenna connector requirement

The antenna is permanently attached to the product.

15.204 Antenna description

The electric meter transceiver module uses a permanently attached built-in antenna:

Antenna description	Gain	MFR name
electric meter antenna	-1.08 dBi max	Invensys HCS

15.247(a) Frequency hopping spread spectrum definition

Pseudorandom frequency hopping sequence:

The transmitter cannot coordinate its hopping sequence with the hopping sequence of other transmitters, or vice versa, for the purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters

Each access unit has an individual ID number and there is no link or association between two access units so there is no simultaneous occupancy of individual hopping frequency transmission of two or more access units.

Equal hopping frequency use:

The EUT utilizes 50 hopping channels. Hopset is 50 channels long, then repeats. On average all channels are used equally.

System receiver input bandwidth and receiver hopping capability:

Receiver 26 dB bandwidth is 200 kHz, approximately equal to 26 dB bandwidth of TX. Receiver channel hops are synchronized to transmitter operating frequency.

NATURE OF CLASS 2 CHANGE

Some portions of the circuit boards have been laid out differently for ease of manufacture. Some passive components have been replaced with equivalent parts from different vendors.

Minor changes were made to the basic radio circuitry but L.O. chain, output power, channel occupied bandwidth, number of hopping channels, channel occupancy time, etc., all remain unchanged.

The nature of the changes are such that only transmitter radiated emissions are likely to be affected. Transmitter radiated emissions tests were performed to 10fo.