



Federal Communications Commission

Authorization and Evaluation Division

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Re: FCC ID: QZC-REXUANZ

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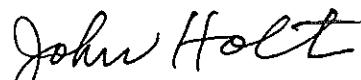
The purpose of this letter is to request single modular approval of the Elster Solutions Model REXUA-NZ, printed circuit board assembly, which contains a frequency-hopping spread-spectrum transceiver operating in the 902 - 928 MHz ISM band under the provisions of FCC Part 15.247.

To address the specific numbered items of Public Notice DA 00-1407:

1. The REXUA-NZ board incorporates two shields, one over the wireless 900 MHz transceiver IC and one over the communications processor, all attached (soldered) to the printed-circuit board. The bottoms of the shields are enclosed by a copper plane that is part of the printed-circuit board.
2. The REXUA-NZ transmitter incorporates digital buffers on the data inputs, which are part of the transceiver ICs. The peak modulation is set by firmware that is stored within the transceiver ICs. The data rate is set by the same stored firmware. For this reason, it is not possible to over-drive the modulation input, or apply excessive data rates to the data inputs to produce over-modulation.
3. The REXUA-NZ has its own power supply regulation. It receives unregulated power from the host metering devices and this is applied to a switching regulator which is followed by a linear regulator to supply the lower voltage sections of the device. For this reason, varying the supply voltage to the REXUA-NZ cannot vary the transmitter power, which is set and measured at the time of manufacture.
4. The REXUA-NZ is configured to operate with an internal printed circuit board antenna, used for the 900 MHz radio, that is integral to the module itself.
5. The REXUA-NZ module was tested in a stand-alone configuration for compliance with the FCC Part 15 requirements. The module also complies with the AC line conducted requirements found in FCC Part 15.207. The REXUA-NZ module is intended to be installed in REXUA-NZ electricity meters and metering equipment supplied by Elster Solutions.
6. The REXUA-NZ has a label to identify the module's FCC ID. This label is either silkscreen printed or permanently affixed to the REXUA-NZ printed circuit board assembly and is thus permanent. Additionally, the FCC ID appears on the front-panel nameplate of Elster Solutions meters and devices that contain the REXUA-NZ module.
7. The REXUA-NZ complies and is certified for compliance with all of the applicable provisions of FCC Part 15.247 for frequency-hopping spread-spectrum devices for the 900 MHz radio.
8. The REXUA-NZ is a low-power (1 W) device and operates with a low duty cycle. The REXUA-NZ has been demonstrated and certified to comply with the MPE RF exposure requirements for mobile devices. Installation and

operating instructions specify the required minimum distance from humans
for installed electricity meters.

Respectfully,



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