



900- Transceiver Specifications

Specifications

Applications - For use with RG3 Tesla RF equipped endpoints operating in the 900 MHz band. The 900 - Transceiver utilizes a 1-Watt transceiver to enable 2-Way communication with Tesla RF endpoints and almost any USB equipped computer. The 900 - Transceiver provides wireless connectivity with RG3 AMR/AMI technology solutions eliminating the need for physical access to the meter after installation.

Operating Characteristics: The 900 - Transceiver is durable, but light and mobile at the same time. The 1-Watt transceiver communicates directly with Tesla endpoints performing basic functions such as meter reads and data logs as well as more advanced functions like programming and transmission confirmation. Although the 900 - Transceiver and TeslaNet systems have 10 times the transmission power of other leading AMR/AMI technologies, the total monthly output of electromagnetic radiation is at least 10,000 times less than comparable technologies, or roughly 5% of the amount emitted by the average cell phone each month in the US.

Transmission: The 900 - Transceiver transmits at a full 1-watt. All functions are accomplished through streamlined 2-way communication utilizing the FCC approved unlicensed 902-928 MHz band. To ensure transmission success, the 900 - Transceiver employs Cyclic Redundancy Checks (CRC), Spread Spectrum Frequency Hopping Modulation, and Channel Coding which are the same technologies used by the US military to thwart signal jamming attempts by combatants.

Wireless Field Programing: The 900 - Transceiver is used to program Tesla RF endpoints to RG3 meters and other manufacturers meters as well. In both cases, the 900 - Transceiver enables the option for field programming the unit of measure, the current or existing read if desired, and the meter serial number the Tesla RF endpoint is associated with. Any Tesla RF endpoint can be removed and placed on any other meter of the same manufacture, type, and size using the 900 - Transceiver.



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Mounting: The 900 - Transceiver is easily carried from vehicle to vehicle and can be placed on the vehicles dash or passenger seat while in use. The compact design allows for easy storage.

Warranty: 900 - Transceiver is warranted against operational failure for a period of 18 months.

Transceiver Type	Dual transceiver design for maximum throughput
Communication Type	All functions are achieved through 2-Way RF Communication
Dimensions	89 mm (3.5") length X 108 mm (4.25") width X 35 mm (1.375")
Weight	181 grams or 6.4 oz
Modulation	Spread Spectrum GFSK
Temperature	-5° to 125°F (-20° to 51°C)
Signal Output	1-Watt RF transmission
Signal Type	Unlicensed Frequency (902MHz - 928MHz) 50 Channels of Operation
Power Supply	USB powered – 5V 0.5A

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