

# TeslaDrive AMR Transceiver Specifications



## Specifications

**Applications** - For use with RG3 Tesla RF equipped meter registers. The TeslaDrive AMR Transceiver utilizes a 1-Watt transceiver to enable 2-Way communication with Tesla RF meter registers and almost any USB equipped computer. The TeslaDrive AMR Transceiver provides wireless connectivity with RG3 Automated Meter Reading Systems Software (AMRSS) AMR/AMI technology solutions eliminating the need for physical access to the meter after installation.

**Operating Characteristics:** The TeslaDrive AMR 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. Unlike 1-way bubble up technologies that throw hundreds of thousands of wasted transmissions and large amounts of unnecessary energy into the atmosphere each month, the TeslaDrive AMR Transceiver extremely efficient 1 watt power is environmentally friendly and only requests end point transmissions when it is in proximity. Although the TeslaDrive AMR 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 TeslaDrive AMR 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 TeslaDrive 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 TeslaDrive AMR Transceiver is used to program Tesla RF endpoints to RG3 meters and other manufacturers meters as well. In both cases, the TeslaDrive AMR 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 register can be removed and placed on any other meter of the same manufacture, type, and size using the TeslaDrive AMR Transceiver.



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**Mounting:** The TeslaDrive AMR 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:** TeslaDrive AMR Transceiver is warrantied 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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