

Summary of Transmitter Packaging Modifications

Dominion Wireless improved the design of the PPD transmitter to include an injection-molded plastic housing, more permanent enclosure marking, a longer-life battery, rapid-install RF board shields, and the addition of an external antenna option. No modifications were made to the frequency control circuitry. Below is a detailed list of the modifications.

<u>Change</u>	<u>Description</u>
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Housing	The prior housing was purchased and modified. The new housing is a custom injection molded unit that will be of different dimensions. In both cases, the plastic housing is not used for shielding.
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<u>Change</u>	<u>Description</u>
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Marking	The prior marking was contained on an adhesive label. It will now be embossed into the plastic enclosure.
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<u>Change</u>	<u>Description</u>
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Battery	The prior battery was a 6 V Lithium cell. The new battery is a 9 VDC alkaline cell.
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<u>Change</u>	<u>Description</u>
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Shields	The new shields clip into surface mount clips. The prior design used solder-tabs.
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<u>Change</u>	<u>Description</u>
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uP Crystal	We are changing the microprocessor crystal to a surface mount part from a thru-hole package.
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<u>Change</u>	<u>Description</u>
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Antenna	The new housing will include an external antenna option - it is a flexible quarter wave wire that permanently attaches and is not field-changeable. The standard option will remain the internal antenna manufactured by Linx Technology that Rheintech tested and approved last run. The gain of the prior unit is -4dBi. The gain of the optional external antenna is +1 dBi. Testing will be conducted under both internal and external antenna configurations.
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