

3. Description of Equipment and Peripherals

3.1 Equipment Under Test (EUT)

Device:	Non-Broadcast Transmitter
Model Number:	G5R
Serial Number:	352900
FCC ID	EO9G5R
Emission Designator	8K85A1D
Usage	Automatic interrogation and receiving of utility meter data
Modulation	AM pseudo-sinusoidal tones
Input Power	4.2 Vdc battery pack
Output Power (Nominal):	250 mW (24 dBm)
Grounding:	None
Antennas:	Vertical sleeve dipole
Channel Spacing	12.5 kHz
Lowest Frequency:	952.006250 MHz
Highest Frequency:	956.443750 MHz

3.2 Calculation of Necessary Bandwidth

It is not possible to calculate necessary bandwidth in accordance with CFR 47 part 2 section 2.202 (c) (1), (2), or (3), therefore, per section 2.202 (c4) the actual 99 percent bandwidth was measured. The measured 99 percent bandwidth is 8.85 kHz.

3.3 Power in Final Stages

Note: due to the product design it was not directly possible to physically measure the collector current (IC) and collector voltage (VC) directly for the exciter. The RF/PM 2105 module operates at approximately 50% efficiency over the 951-962 MHz band at the rated temperature and power levels tested. Power is controlled by varying the voltage to the RF/PM 2105 module.

3.4 EUT Peripherals

None, the EUT is a stand alone device.

3.5 Description of Interface Cables

None, the EUT is a stand alone device.

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