

The experimental variable power pulseEKKO PRO transmitter provides extended capability to the standard pulseEKKO PRO system. The transmitter is similar to the FCC approved device QJQ-PE-PRO-TLF-A in all respects except spurious emission levels. When attached to the standard pulseEKKO PRO antennas, the maximum quasi-peak spurious EIRP (120 kHz RBW) and total spurious EIRP power are summarized in Table 1 for 100% duty cycle.

Table 1: EIRP Power Levels

Antenna (Center Frequency)	-3dB Bandwidth		Quasi -peak EIRP (120 kHz RBW) (dBm)	Total EIRP (dBm)
	Low	High		
12.5 MHz	6	18	-7	13
25 MHz	12	38	-14	9
50 MHz	25	75	-21	5
100 MHz	50	150	-31	-2
200 MHz	100	300	-34	-14

The transmitter has a variable PRF with a maximum PRF of 100 kHz. The unit is used intermittently with a low duty cycle typically <50% and often less than 10%. The transmitter is designed for experimental research in geological sounding normally in remote areas.