 

**Specifications**

**Environmental**

* Receiver Ingress Protection: IP64
* Transmitter Ingress Protection: IP54
* Operating Temperature: -20°C to 45°C (-4°F to 113°F)
* Storage Temperature: -20°C to 70°C (-4°F to 158°F)
* Humidity: 0-95%, non-condensing
* Altitude: Up to 5,000 meters (16,000 feet)
* Outdoor Use: Not for use in wet locations

**Mechanical**

* Receiver Weight: 3.8 lbs
* Transmitter Weight: 5.6 lbs

**Power Supply**

* Transmitter Battery: Rechargeable Li-Ion, 4S2P, 14.4V, 99Wh, 6.9Ah
* Transmitter Max Input Power: 17 Watts at 14.4V
* Receiver Battery: Rechargeable 26650 Li-Ion, 5500mAh, 3.6V
* Receiver Max Input Power: 1 Watt at 3.6V
* Flexible Receiver Battery System: 2 x D-Cell Alkaline

**Battery Life**

* Transmitter (Li-Ion): 8 hours at 7.0 Watts
* Receiver (Li-Ion 26650): Over 17 hours
* Receiver (2 x D-Cell): Over 8 hours

**Transmitter Output**

* Output Frequencies: 512Hz, 8.125KHz, 33.025KHz, 82.175KHz (user-selectable)
* Max Output Current: 0.45A
* Max Output Voltage: 90VRMS (user-selectable: 30V, 60V, 90V)
* Max Output Power:
	+ 9.5W for 512Hz, 8.125KHz, 33.025KHz
	+ 0.95W for 82.175KHz (fixed)
* Auto Power Down: User-configurable from 5 minutes to 9 hours, 15 minutes
* Stray Voltage Output Protection: Detects stray 50/60Hz voltages above 25V and automatically shuts off

**Transmitter Operating Modes**

* **Direct Connection**: Red lead connects to the utility, black lead to a ground rod
* **Coupling Clamp Connection**: Clamp induces signal magnetically into the utility
* **Inductive Connection**: Transmitter’s internal antenna radiates a magnetic field to energize the utility

**Receiver Operating Modes**

* **Peak & Null Mode**: Auto-adjusting gain for peak detection over utilities
* **Wide Peak Mode**: Detects utilities from far lateral distances or deeper burial
* **Narrow Peak Mode**: Ideal for congested utility areas
* **Null Mode**: Detects utilities with low field distortion
* **Passive Power Mode**: Traces utilities passively energized by AC power
* **Sonde Mode**: Detects sondes and measures depth

**Receiver Performance**

* Sensitivity:
	+ 512 Hz: 440μA @ 3 ft
	+ 8kHz: 40μA @ 3 ft
	+ 33kHz: 13μA @ 3 ft
	+ 82kHz: 13μA @ 3 ft
* Max Depth: 32 ft (10 m) in all modes

**External Connectors**

* Receiver: None
* Transmitter Accessory Jack: 4-Pole Male Neutrik NL4MPXX

**Compliance**

* 47 CFR FCC Part 15, Subpart B
* IEC 61326-1: 2020, EN 61326-1: 2021
* 47 CFR Part 15, Subpart C
* ETSI EN 301 489-1 V2.2.3
* ICES-003, Issue 7
* ETSI EN 301 489-3 V2.1.1
* ICES-GEN, Issue 1
* EN 303 454 V1.1.1
* RSS-GEN Issue 5
* ANSI C63.4: 2014
* RSS-310: Cat 2, Issue 5: 2020
* IEC 61010-1: 2010

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