

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: 440 μ A @ 3 ft
 - 8kHz: 40 μ A @ 3 ft
 - 33kHz: 13 μ A @ 3 ft
 - 82kHz: 13 μ A @ 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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