

**THE
LATEST IN
LINE-TRACING
TECHNOLOGY**

TW9000

*Multi-Frequency
Underground
Utility Locator*



DESIGNED FOR TODAY'S WORKFORCE

- Easier to use
- Easier to train
- Higher performance

HIGHER POWER - BEATS THE COMPETITION

- Accommodates the industry's highest voltage output with the highest power
- Works better in all soil conditions
- Traces farther

LONG-LIFE BATTERIES - RECHARGEABLE

- Operate Receiver 30% to 70% longer on a single charge
- Industry's smartest Transmitter smart-battery

LIGHT WEIGHT

- 12% to 25% less weight than competitors



FISHER® RESEARCH
LABS

TW9000

Multi-Frequency Underground Utility Locator

SPECIFICATIONS

TRANSMITTER	
Output	
Maximum Output Current	0.45A
Maximum Output Voltage	90VRMS Max. User max voltage selection: 30V, 60V or 90V.
Output Frequencies	512Hz, 8.125kHz, 33.025kHz, 82.175kHz. User selectable.
Maximum Output Power	9.5W for 512Hz, 8.125kHz & 33.025kHz. 0.95W for 82.175kHz. User max power selection: 1W,2W,3W,4W,5W,6W,7W,8W, 9W,9.5W. For 82.175kHz max power is set to 0.95W.
Auto Power Down	To conserve battery life an auto power down timer will turn the Transmitter off after a period of time. The timer may be set from 5 minutes to 9 hours 15 minutes. The timer function may be turned off and on by the user.
Stray Voltage Output Protection	Transmitter senses stray 50/60Hz voltages above 30V on the output. If the Transmitter is operating and 50/60Hz voltages above 25V are sensed, the Transmitter output will turn off automatically.
Operating Modes	
Direct Connection	The direct connection accessory red lead is connected to the utility and the black lead is connected to a ground rod inserted into the ground.
Coupling Clamp Connection	The Coupling Clamp accessory is clamped around the pipe or cable. The clamp magnetically induces a signal into the utility without electrical connection to the utility.
Inductive Connection	The Transmitter's internal antenna radiates a magnetic field that energizes the utility.
Mechanical	
Weight	5.6 lbs.
Connectors, External	
Accessory Jack	Connector, 4 Pole, Chassis, Male, 25A, 250VAC Neutrik NL4MPXX
Power Supply	
Battery Pack, Rechargeable	Li-Ion Battery Pack, 4S2P, 14.4V ,99Wh, 6.9Ah
Operating Time	
Li-Ion	8 hours @ 7.0 Watts

RECEIVER	
Operating Modes	
Peak & Null Mode	Receiver gain adjusts automatically for peak VCO audio pitch when directly over a utility.
Wide Peak Mode	Useful for detecting utilities from far lateral distances or utilities that are deeply buried.
Narrow Peak Mode	Useful when tracing in areas congested with multiple utilities.
Null Mode	Useful for determining the location of buried utilities having low field shape distortion.
Passive Power Mode	Trace buried utilities that are passively energized by AC power currents.
Sonde Mode	Detect sondes and measure sonde depth.
Mechanical	
Weight	3.8 lbs.
Power Supply	
Battery, Rechargeable	Protected Rechargeable 26650 Li-Ion; 3.6V / 5500mAh
Flexible Battery System	2 x D-Cell Alkaline
Operating Time	
1 x Li-Ion, 26650	more than 17 hours
2 X D Cell (flexible)	more than 8 hours

Environmental	
Ingress Protection	IP64
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%, noncondensing
Altitude	5,000 meters (3.1 miles)
For Outdoor Use	Not in wet locations

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