



PRECISION LOCATING & DATA LOGGING

RTK GNSS, LOCATOR AND MOBILE APP INTEGRATION





A person wearing khaki work pants and a dark shirt is holding a white and grey Pathfinder GNSS receiver. The receiver is a handheld device with a small screen and a yellow button. The person is standing on a rocky, uneven surface. The background is slightly blurred, showing more of the rocky terrain.

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GNSS LOCATING & DATA LOGGING

## **Centimeter-Level GNSS Precision**

Easily map utilities with ultra-precise RTK-corrected location data—ensuring accurate mapping and confident locating.

## **Streamlined Digital Workflows**

Seamlessly integrates with Trimble® Catalyst DA2, enabling efficient, real-time data transfer directly to your GIS mapping systems.

## **Terraflow® Integration**

Supports full GIS and CAD compatibility, with native integration for Esri® and AutoCAD®

## **Intuitive, Operator-Friendly Design**

Combines multi-channel signal processing with advanced locating algorithms to deliver fast, accurate, and cost-effective performance in any environment.

## **FrequencyFlex™ Technology**

Customize over 1,000 programmable frequencies on demand. Easily add or remove frequencies in the field using push-button controls tailored to your locating needs.

## **PathLink™ Remote Control**

Eliminate back-and-forth trips by wirelessly controlling transmitter power and frequency from the receiver—up to 400 yards away.

## **Extended Warranty Protection**

Backed by a 4-year warranty with product registration, offering long-term confidence and lower cost of ownership.

## **Proudly Made in the USA**

Designed, engineered, and manufactured in Raytown, Missouri—continuing a legacy of quality and innovation since 1946.

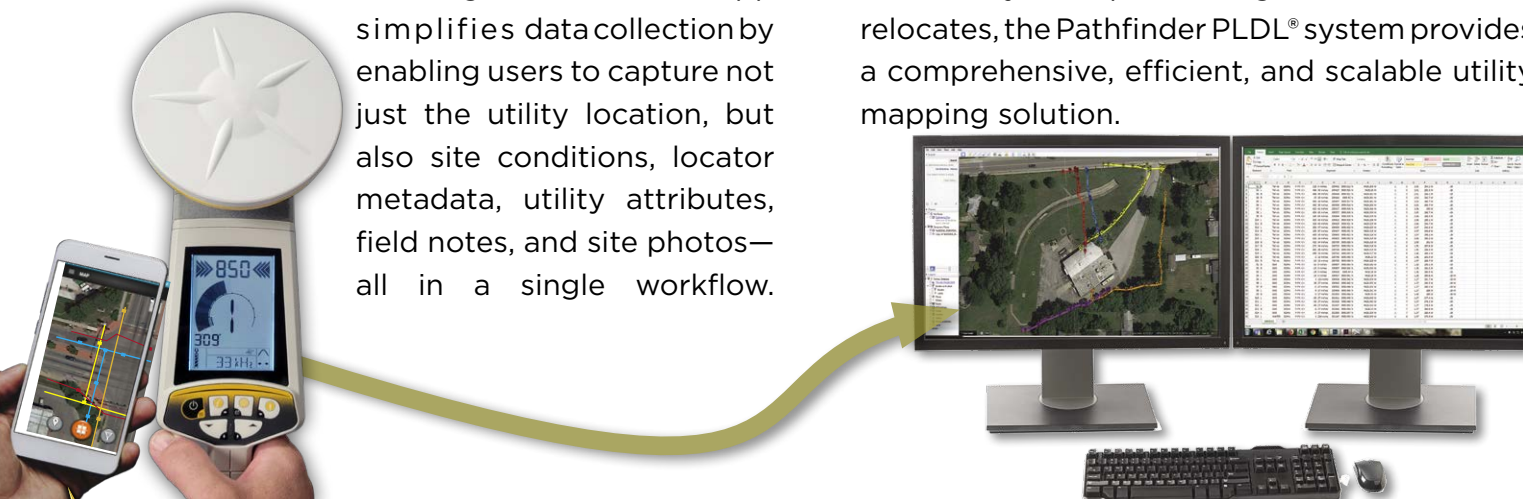


The RYCOM Pathfinder PLDL® delivers a complete and user-friendly solution for utility locating and mapping—from the field to the office. Combining advanced signal locating technology with centimeter-level RTK GNSS accuracy, the Pathfinder PLDL® ensures pinpoint utility location with unmatched precision.

In the field, the integrated mobile app simplifies data collection by enabling users to capture not just the utility location, but also site conditions, locator metadata, utility attributes, field notes, and site photos—all in a single workflow.

With seamless, near-real-time data transfer to your GIS infrastructure, Pathfinder PLDL® bridges the gap between field crews and office systems. The software supports full GIS and CAD integration, including Esri® and AutoCAD®, ensuring compatibility with your existing asset management workflows.

Whether you're performing initial locates or relocates, the Pathfinder PLDL® system provides a comprehensive, efficient, and scalable utility mapping solution.



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PRECISION GNSS SYSTEM

KIT PART NUMBER 001 01946 00



## PATHFINDER PLDL RECEIVER

Precision locating receiver offering multiple active & passive frequencies, multiple locate modes, constant depth readout and current measurement. GNSS BLE package equipped with lithium-ion rechargeable batteries.



## PATHFINDER TRANSMITTER

10-watt transmitter capable of direct connection, transmitter induction & coupler induction. Standard with lithium-ion rechargeable batteries.



## DIRECT CONNECTION CORD & GROUND ROD

Direct connection lead clips, each with 10 foot of reach & Ground rod for near-end independent ground.



## PROTECTIVE CARRYING CASE

A heavily padded protective case for equipment during transport and use.



## BATTERIES & AC BATTERY CHARGER

Li-Ion battery packs for both the transmitter and receiver. Battery chargers for use in ac wall outlet.



## MANUAL

Operations manual



## DA2 GNSS ANTENNA

GNSS antenna with a variety of RTK corection subscriptions



## MOBILE APP MAPPING SOFTWARE

TerraFlow Utility Mapper software for field data collection

## COMMON OPTIONAL ACCESSORIES



## CLAMPMETER V2.0

WIRELESS COUPLER 4" I.D.

P# 001-003349-00

4" I.D. cordless inductive coupler used to apply signal on live cables when direct connection is not possible. Operational frequency 33kHz, 65kHz & 82kHz.



## INDUCTIVE COUPLER 4" I.D.

P# 100-00398-00

4" I.D. inductive coupler used to apply signal on live cables when direct connection is not possible. Operational frequency range 8kHz to 82kHz.



## GROUND EXTENSION KIT

P# 151-00494-25

Two 25ft cords and 2 ground rods for reaching desired grounding location



## STAFF A-FRAME

P# 001-00487-01

Stand alone a-frame works independently from the receiver. This directional ground fault detector pinpoints core-to-ground faults and sheath-to-ground faults.



## SONDE [AVAILABLE IN 512Hz, 640Hz, 8kHz & 33kHz]

P# 100-00281-01

Self contained signal transmitter with 25 foot range can be used in non-pressurized conduits and pipes to track path and pinpoint blockages.



## 12VDC BATTERY CHARGER

P# 750-00032-00

DC battery charger for use in a cars 12 volt auxiliary



## RECEIVER SPECIFICATIONS

Available Operating Frequencies.....	476.527 kHz*, 262 kHz*, 200.330 kHz*, 145 kHz, 131 KHz, 117.850 kHz, 116 kHz, 93 kHz, 83.00kHz, 82.70kHz, 82.315 kHz, 65.536 kHz, 33.0 kHz, 32.768 kHz, 9.2 kHz, 8.9 kHz, 8.4 kHz, 8.192 kHz, 4.010 kHz, 1.450 kHz, 1.100 kHz, 1.020 kHz, 1.010 kHz, 940 Hz, 920 Hz, 870 Hz, 815 Hz, 797 Hz, 760 Hz, 640 Hz, 577 Hz, 570 Hz, 512 Hz, 273 Hz, 256 Hz, & 200 Hz (* where permitted by law) Sonde: 640Hz, 512Hz, 815Hz, 8.192 kHz & 32.768kHz Passive: Power modes 50 <sup>env</sup> & 60 <sup>env</sup> , 50Hz, 150Hz, 250Hz, 350Hz, 450Hz, 60Hz, 180Hz, 300Hz, 420Hz, 540Hz; LiveSound™; Radio Frequency; Rectified CP 50Hz & Rectified CP 60Hz
Antenna Mode .....	Simultaneous peak/null (dual horizontal antennas & vertical antenna), pin-point peak (dual horizontal antennas), directional guidance, peak (single horizontal antenna) & null (single vertical antenna).
Display Indicators .....	Backlit segmented LCD bar graph, battery condition, continuous mode signal strength, depth measurement, line orientation, left/right line guidance, operating mode, volume level & function indicators
Audio Indication .....	Variable pitch & LiveSound. 4 volume selections including mute.
Current Measurement .....	Display indicates relative current
Power Source .....	6 "C" cell batteries or Lithium Ion
Battery Life .....	Continuous: 30 hours intermittent: 82 hours
Signal Strength .....	LCD bar graph, absolute signal strength 0-999
Gain Control .....	Left/Right Guidance Mode: Automatic All other locate modes: Manual gain adjustment & automatic centering
Dynamic Range .....	126 dB
Depth Measurement .....	DIGITAL: 3 digit LCD readout of push-button measurement (1 inch - 50 feet) (.02m- 15 m) with accuracy > 5% of depth. MANUAL: 45° triangulation method
Operating Temperature .....	-4° F to +133° F (-20° C to +55° C)
Ingress Protection Rating .....	IP65
Dimensions .....	30.3" x 9.4" (77 cm x 24 cm)
Weight .....	Rechargeable: 4.2 lbs (1.9 kg); C-cell: 4.2 lbs (1.9 kg)

## TRANSMITTER SPECIFICATIONS

Available Operating Frequencies.....	476.527 kHz*, 262 kHz*, 200.330 kHz*, 145 kHz, 131 KHz, 117.850 kHz, 116 kHz, 93 kHz, 83.00kHz, 82.70kHz, 82.315 kHz, 65.536 kHz, 33.0 kHz, 32.768 kHz, 9.2 kHz, 8.9 kHz, 8.4 kHz, 8.192 kHz, 4.010 kHz, 1.450 kHz, 1.100 kHz, 1.020 kHz, 1.010 kHz, 940 Hz, 920 Hz, 870 Hz, 815 Hz, 797 Hz, 760 Hz, 640 Hz, 577 Hz, 570 Hz, 512 Hz, 273 Hz, 256 Hz, & 200 Hz (* where permitted by law)
Indicators .....	AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver.
Load Matching .....	Automatic from 5 ohms to 25,000 $\Omega$
Output Power .....	10 power settings Low & Medium Frequency Range: 0.2w to 10w High Frequencies (above 44kHz) : 0.2 to 1w
Power Source .....	Rechargeable: 10.8 V, 10 amp-hour maintenance free Lithium Ion Battery Non-Rechargeable: 12 "D" cell batteries
Battery Life .....	Continuous: 8-20 hours (dependant on load, frequency, power setting) Intermittent: 40-60 hours
Operating Temperature.....	-4° F to 133° F (-20° C to 55° C)
Ingress Protection Rating .....	IP65
Dimensions .....	16" x 6.32" x 6" (41 cm x 16 cm x 15 cm)
Weight .....	Rechargeable: 6 lbs (2.7 kg); D-cell: 8 lbs (3.6 kg)

WARRANTY .....	48 Month (4 Years) Warranty when registered at <a href="http://www.rycominstruments.com/extended.html">http://www.rycominstruments.com/extended.html</a> within 1 month of date of purchase. Warranty from date of delivery against defects in material and workmanship (EXCEPT BATTERIES) on all instruments. This warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alteration or casual repair. We will repair or replace products that prove to be defective during warranty period. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WE ARE NOT LIABLE FOR CONSEQUENTIAL DAMAGES.
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Country of Origin .....	United States of America
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Manufactured By.....	<b>RYCOM</b> instruments, inc.
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