

A person wearing a red shirt and tan cargo pants is using a Pathfinder precision locating system. The device is a long, white and grey handheld unit with a yellow label that reads "pathfinder PRECISION LOCATING SYSTEM". The person is holding the device over a rocky, uneven ground. The background is a blurred construction site with yellow equipment.

pathfinder

PRECISION LOCATING SYSTEM

 **RYCOM**
instruments, inc.

PIPE TOOLS INC
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pathfinder

PRECISION LOCATING SYSTEM

KIT PART NUMBER 001 00700 00



PATHFINDER RECEIVER

Precision locating receiver offering multiple active & passive frequencies, multiple locate modes, constant depth readout and current measurement. Standard package equipped with lithium ion rechargeable batteries and interchangeable c-cell tray.



PATHFINDER TRANSMITTER

10-watt transmitter capable of direct connection, transmitter induction & coupler induction. Standard with lithium ion rechargeable batteries and interchangeable d-cell tray.



DIRECT CONNECTION CORD

Direct connection lead clips, each with 15 foot of reach.



GROUND ROD

Ground rod for near end independent ground



PROTECTIVE CARRYING CASE

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



BATTERIES

Li-ion battery packs for both the transmitter and receiver.



AC & DC BATTERY CHARGERS

Battery chargers for use in ac wall outlet as well as a dc charger for use in a cars 12 volt auxiliary



MANUAL

Operations manual

COMMON OPTIONAL ACCESSORIES



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.



INDUCTIVE FLEXI-COUPLER 7" I.D.

P# 100-00245-00

Flexible coupler with 7" I.D. applies signal on cables when direct connection is not possible. Dual frequency (82kHz & 815Hz)



STAFF A-FRAME

P# 001-00487-00

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, 815Hz, 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.

PRECISION AT ITS CORE

Built with Pathfinder SAF Technology™ at its core, the Pathfinder Precision Locating System from Rycom Instruments, Inc., is ideal for congested locates in crowded easements, long runs of pipe and cable, as well as basic service drops. This simple, accurate and affordable locator is designed for those committed to protecting buried infrastructure.

Engineered with our signature FrequencyFlex™, the Pathfinder Precision Locating System allows users to adapt the available frequencies to their specific needs. Frequencies can be added or deleted on demand to suit the user's locating needs.

Our innovative PathLink™ technology* creates a remote link between the transmitter and receiver. Users can now control the transmitter's output power and frequency right from the hand-held receiver, eliminating the back and forth walking between devices. (*optional)

A large, high-contrast LCD offers clearly visible signal response in any lighting. Automatic depth, automatic current, and proximal directional arrows are readable in the brightest sunshine or backlit for viewing in dimmer conditions.

Whether the locate is measured in feet or miles, 10 watts of power and automatic impedance matching from 5 ohms to 25,000 ohms, ensures adequate signal application. The Pathfinder Precision Locating System is a must have for any damage prevention specialist.

FEATURES

- FrequencyFlex™: offers 1000+ programmable frequencies crafted to individual locating requirements. FrequencyFlex™ allows push-button field customization at the job site.
- 8 Locating Modes: the multi-channel processor allows for simultaneous field detection from a multiple antenna array ensuring accuracy
- PathTraQ™ Mobile Application: downloaded to your phone, Rycom's PathTraQ™ is a GPS & Data Logger application to provide real-time coordinate logging of field locations
- Automatic Impedance Matching Technology: maximizes your transmission range while minimizing power consumption
- PathLink™ Technology: remotely controls your transmitter from the receiver to more than 400 yards
- High-Contrast LCD Interface with Backlight: guides the operator to the target location by providing all relevant data including continuous depth, current measurement, signal strength, and directional arrows.
- Constant Depth & Current Measurement: real time updates on line depth and signal condition
- 84 wH Lithium-Ion Batteries: lighter weight design and longer operating life
- 4-year warranty: registration extends warranty to 4 years.
- Made in the USA since 1946: engineered in our Raytown, MO headquarters for more than 70 years



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 ^{env} & 60 ^{env} , 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 - 30 feet) (.02m-10.6m) 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 Ω
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 http://www.rycominstruments.com/extended.html 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.....	RYCOM instruments, inc.
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