

FISHER[®] RESEARCH LABS

UTILITY PRODUCT CATALOG



DIGITAL LINE TRACERS

TW-82

The TW-82 will trace conductive electrical lines, pipes, and cables. Simple and easy to use, with one-button operation. The LCD screen will guide you to the item you are tracing.

TW-82 RECEIVER

Frequency	82.175 kHz
Depth Measurement.....	Automatic Numeric Display
Left/Right Guidance	Audible and Visual
Azimuth Indicator	Audible and Visual
Over-Target Indicator.....	Visual
Signal Strength Indicator	Numeric Display & Audible
Signal Current Measurement	Automatic Numeric Display
Battery Status.....	Visual
Battery Life.....	Average 100 Hours
Battery Type	2xD (included)
Weight	3.5 lbs. (1.58 kg)
Dimensions	7-1/2" x 11" x 30" (19 cm x 27.9 cm x 76.2 cm)

TW-82 TRANSMITTER

Output Frequency	82.175 kHz
Output Power (nominal)	Normal Setting= 0.25 Watts High Setting= 1.0 Watts
Conductive Tracing.....	2 to 3,000 ohms normal power-6dB Magnetic Strength
Inductive Tracing	15Vm2, normal power Magnetic Strength
Battery Life.....	Average 130 hours
Battery Type	4xD (included)
Weight	3.73 lbs. (1.69 kg)
Dimensions	9-1/2" x 11-1/2" x 4" (24.1 cm x 29.2 cm x 10.1 cm)



ENVIRONMENTAL

Operating Temp	-4° to +140°F (-20° to +60°C)
Ingress Protection Rating.....	IP65 (stands up to water jets)
Relative Humidity.....	0 to 95% noncondensing

OPTIONAL ACCESSORIES

Coupling Clamp Useful for in-service and electrical power line tracing when a metal-to-metal hookup is not possible
Item # CCLAMP-3 (image not shown)
Item # CCLAMP-5 (image not shown)
 Sonde insertable transmitter *Item # SONDE-82.175*

TW-82P

Passive Power Detection

TW-82P Receiver,
 TW-82 Transmitter and
 Coupling Clamps



FERRO-MAGNETIC LOCATORS

FPID-2100

The Fisher FPID2100 features a patented Target Identification System (TID)[™] designed to save you time digging unnecessary holes, especially in hard or frozen ground.

Locate valves and curb boxes up to 9 ft deep, survey markers up to 8 ft deep and PK nails up to 14" deep. It can distinguish between a utility hole cover and a closed iron valve.

FEATURES

- Locate targets near a fence line.
- Pinpoints to 1" of center for valves and curb boxes.
- Find buried ferrous objects including PK nails, iron pipes, valve covers, masonry nails and hidden culverts.



Compact & Lightweight

ENVIRONMENTAL

Operating Temperature - -13 to 140°F (-25 to 60°C)

SPECIFICATIONS

Battery Type - 1x9V (not included)
 55 hours intermittent use low battery indication
 Weight - 2 lbs. (.9 kg)
 Dimensions - Overall length 34" (86.36 cm)
 Submersible in water up to the handle grip 30" (76.2 cm)

FX3

The FX-3 is easy to operate; just turn it on and go. It weighs just 2.5 lbs. (1.14 kg) and features motion detection (must be moving to detect a target).

This unit is sensitive to iron with a large surface area, highly magnetized objects and long objects buried vertically.

In addition to its utility uses, this detector can be used by archeologists and treasure hunters to find iron relics and other buried ferrous artifacts.

FEATURES

- Motion-only probe
- Variable tone and pitch
- Sharp null over target for precise target pinpointing
- Highly sensitive to iron.
- Simple one-knob operation

ACCESSORIES

Standard Equipment:
 Carrying Case *Item # 2018060000*
Optional Equipment:
 Fisher Phones *Item # 9720971000*
 Stereo Phones *Item # 9720950000*



SPECIFICATIONS

Battery Type.....1x9V (included)
 Battery Life: Carbon Zinc.....25 hours
 Alkaline.....35 hours

Operating Environment:

Carbon Zinc 40°F to 122°F (4°C to 50°C)
 Alkaline 0°F to 122°F (-18°C to 50°C)
 Waterproof Length 36" (91.4 cm)
 Output Indication Audio 2-1/4" (5.7 cm) dia. speaker or headphones
 Weight 2.5 lbs. (1.14 kg)
 Length 42-1/4" (107.3 cm)

REBAR LOCATOR & METAL PROBE

M-101

The Fisher M-101 metal detector was designed specifically to find reinforcing bars and other metal objects embedded in concrete and to locate conduits, PK nails, wiring, and metal wall studs. Users may expect accuracy to 1/4" of the centerline of the rebar.

SPECIFICATIONS

Operating Frequency - 4.5 kHz
 Battery Type - 1x9V (included)
 Weight - 2.8 lbs. (1.3 kg)



METAL DETECTORS

M-66 & M-97

The M66 & M97 detectors were designed to find buried valves, boxes or vaults. They locate survey markers, water or gas meters, conduit, utility hole covers and any other concealed metal. The search coil can submerge in water.



M-66 FEATURES

- Simple two-knob operation
- Manual sensitivity and ground compensation adjustments
- Permanently attached searchcoil

SPECIFICATIONS

Operating Frequency..... 4.5 kHz
 Battery Type 2x9V (included)
 Battery Life (Alkaline) 25 - 35 hours
 Weight with 8" coil 4.25 lbs. (1.9 kg)
 Operating Temp -4°F to +158°F
 (-200°C to +70°C)
 Adjustable dimensions Length: 28" to 48"
 (71 cm to 122 cm)

M-97 FEATURES

- Automatic retune button
- Sensitivity selector
- Manual ground compensation
- Headphone jack
- Interchangeable searchcoil

SPECIFICATIONS

Operating Frequency..... 4.5 kHz
 Battery Type 2x9V (included)
 Battery Life (Alkaline) 25 - 35 hours
 Weight with 8-inch searchcoil ... 3.3 lbs. (1.5 kg)
 11-inch searchcoil ... 3.9 lbs. (1.8 kg)
 Operating Temp -4 to +158°F
 (-200 to +70°C)
 Adjustable dimensions Length: 38" to 50"
 (96.5 to 127 cm)

AVAILABLE WITH 8" SEARCHCOIL Item # M97-8
 11" SEARCHCOIL Item # M97-11

SPLIT-BOX PIPE & CABLE LOCATOR

TW-6

Tough and simple to use. The TW-6 Pipe & Cable locator finds underground pipes, utility hole covers, vaults, valve boxes and other metallic objects.

- The handle-mounted TW-6 can conduct blind searches of an area to locate an underground pipe or cable where the starting point is unknown.
- Noise canceling circuitry eliminates power line interference
- Ground harness assembly included



OPTIONAL ACCESSORIES

- Tracer Probe Item # PROBE-TW6
- Coupling Clamp Item # CCLAMP-3
- 3-pc Handle Kit Item # HANDLEKIT-TW6
- Hard Carrying Case Item # CASE-TW6
- Sonde Item # SONDE-TW6
- Stereo Headphones Item # 9720950000
- Fisher Phones Item # 9720971000

RECEIVER

Operating Frequency..... 81.60 kHz + .005%
 Battery Type 8xAA (included)
 Weight 3 lbs. (1.36 kg)
 Sensitivity Normal: 400 uV typical - High: 8 uV typical
 Signal-to-noise Ratio..... 110 dB
 Headset Impedance 600 ohms (mono) m - 8 ohms (stereo)
 Dimensions 11-1/2" x 9" x 3" (29.2 x 22.8 x 7.6 cm)
 Operating Temperature..... -10°F to +120°, (-23°C to +48°C)
 depending on batteries used
 Total Weight..... 5.5 lbs. (2.5 kg) - (without handle accessory and ground plate assembly)

TRANSMITTER

Operating Frequency..... 81.92 kHz + .005%
 Battery Type 8xAA (included)
 Weight 2.5 lbs. (1.1 kg)
 Dimensions 11-1/2" x 9" x 3" (29.2 x 22.8 x 7.6 cm)
 Operating Temperature..... -10°F to +120°, (-23°C to +48°C)

WATER LEVEL INDICATORS

WLT

The WLT Water Level Indicator provides an economical and reliable means of obtaining accurate water level data in water wells. An LED and an audio alert indicate contact of the electrode assembly with the water surface.

The brass electrode assembly is 3/8" in diameter and can be replaced in the field. The WLT is available with a 1/2" diameter brass electrode on a special-order basis. The cable is two-conductor, steel and copper plated, with a tensile strength of approximately 300 pounds and a rugged plastic insulating jacket. It is mounted on a small handheld spool and stands to extract or withdraw the cable and electrode assembly conveniently.

Depth is indicated by numbered metal tags securely crimped to the cable at intervals of 5' or every meter on the WLTM metric model.

FEATURES

- Sturdy stand and reel
- Standard lengths: 100, 200, 300, 400, and 500 feet
Metric: 50, 100, and 150 meters
- Handy reel-type spool
- High tensile strength cable
- Flexible brass probe
- Metal tag numbers every five feet or every meter
- Self-contained power supply using a standard 9-volt battery
- Audio and LED alert



SELF CONTAINED SIGNAL TRANSMITTER

SONDE

Fisher Sondes are small transmitters used to trace the path of non-metallic pipes and locate blockage in lines. Sondes are inserted into a pipe or duct utilizing a push rod and located using a Fisher receiver. Fisher offers 4 sondes for use with your line locator at various frequencies.



FEATURES

- Rugged design
- Long battery life
- 1xAA battery (included)

	SONDE-512	SONDE-8K	SONDE-TW6	SONDE-82.175
Operating Frequency	512 Hz	8.2 kHz	81.92 kHz	82 kHz
Weight	8.0 oz	8.0 oz	6.4 oz	6.4 oz
Length	5 1/2"	5 1/2"	5 1/2"	5 1/2"
Height	6"	6"	6"	6"
Battery Life	17 hrs	72 hrs	70 hrs	70 hrs
Depth	15'	20'	20'	20'
Operating Temperature	-20 to +60 C	-20 to +60 C	-20 to +60 C	-20 to +60 C
End Cap Thread	3/8"-16 x 3/4"	3/8"-16 x 3/4"	3/8"-16 x 3/4"	3/8"-16 x 3/4"

LIQUID LEAK DETECTORS

XLT-30

The XLT-30 leak detector pinpoints the audio sound of underground leaks in pipes, valves, water meter pits, and hydrants. Advanced electronic amplification and filtering, a tactile keypad, an easy-to-read digital display, and a notch feature allow independent suppression of outside interfering noise. While the base system is the same, the sensors change in each package listed below.



SPECIFICATIONS

Operating Frequency:

60 Hz – 6 kHz, Gain = 95 dB

20 Hz – 60 Hz, Gain > 90 dB

Filter Types and Frequency Ranges:

All Pass: 60 Hz to 6 kHz

Low Pass: Adjustable cut-off frequency from 150 Hz to 2.4 kHz

High Pass: Adjustable pass band frequency from 150 Hz to 2.4 kHz

Passband: Adjustable center frequency from 150 Hz to 2.4 kHz

Notch Filter: Adjustable center frequency rejection from 150 Hz to 2.4 kHz

Output Indications:

Audio: High performance headphones (64 ohms)

Visual: LCD bar graph and 2-digit numeric display

Grade of Protection: Splash Proof

Battery Test: Automatic

Battery Type: 2x9V (included)

Battery Life: 50 Hours (approximate)

	Item # XLT30-A	Item # XLT30-B	Item # XLT30-C	Item # XLT30-D
Weight:	19 lbs. (8.6 kg)	10 lbs. (4.5 kg)	9.5 lbs. (4.3 kg)	19.5 lbs. (8.8 kg)
Dimensions:	35"x 8"x12" (88.9 x 20.3 x 30.5 cm)	21"x 6"x 14" (53.3 x 15.2 x 35.6 cm)	21"x 6"x 14" (53.3 x 15.2 x 35.6 cm)	35"x 8"x 12" (88.9 x 20.3 x 30.5 cm)
Sensor:	Big Foot	Multi-Sensor	Little Foot	Big foot and Multi-Sensor
Hydrophonic cylinder probe	X		X	

Included with each package listed: probe cable assembly, control unit, headphones, housing bracket, sound rods, carry strap, and heavy-duty case.

XLT-17

The XLT-17 is a liquid leak detector that finds leaks in four easy steps by electronically amplifying leak sounds, selectively filtering out noise, isolating the leak sound, and leading the operator to the source of the leak.

FEATURES

- Detects and pinpoints liquid leaks in pipes
- 4 frequency filters: low pass, high pass, passband and all pass
- Last setting memory feature
- Touch-control keypad
- Shielded sensor for reduced response to outside noise
- Headphones for a clear sound response
- Compact control box can be worn around the neck or over the shoulder with an attachable strap
- Heavy duty carrying case



SPECIFICATIONS

Operating Frequency:

60 Hz – 6 kHz, Gain = 60 dB

20 Hz – 60 Hz, Gain > 55 dB

Filter Types and Frequency Ranges:

All Pass: 60 Hz to 6 kHz

Low Pass: Adjustable cut-off frequency from 150 Hz to 2.4 kHz

High Pass: Adjustable passband frequency from 150 Hz to 2.4 kHz

Passband: Adjustable center frequency from 150 Hz to 2.4 kHz

Output Indications:

Audio: High-performance headphones (64 ohms)

Visual: LCD bar graph and 2-digit numeric display

Grade of Protection: Splash Proof

Battery Test: Automatic, real-time battery level indicator

Battery Type: 2x9V (included)

Battery Life: 50 Hours (approximate)

Carrying Case Dimensions: 21" x 6" x 14" (53.3 x 15.2 x 35.6 cm)

Weight: 10 lbs. (4.5 kg) (unit in carrying case)

COMPACT ACOUSTIC LEAK DETECTOR

XLT-100

Compact Listening Device for Water Leak Detection & Water Leak Surveys

FEATURES

- 4 Filter bands
- 50 and 60Hz notch filtering
- Full size, over-ear isolating headphones
- Numeric display
- Robust, lightweight and portable design
- Includes protective hard case and extension rods
- Backlight

SPECIFICATIONS

Operating Frequency.....40 Hz to 8 kHz

Gain.....60 dB

Filter Bands.....4

Center Frequencies.....500, 1000, 2000, 4000 (Hz)

Filter Boost/Cut.....18 dB

Output Indication.....Audio Visual, 0-99 linear scale

Volume.....0-99, log scale

Battery Type.....2xAA (included)

Battery life.....12-15 hours @ 50% volume

Headset Impedance.....100 Ohms

Unit Dimensions.....8" x 2.625" x 1.125"

Unit Weight.....0.6 lbs. (.27 kg)

Case Dimensions.....17" x 12" x 6"

(43.1 cm x 30.4 cm x 15.2 cm)



FISHER RESEARCH LABS

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