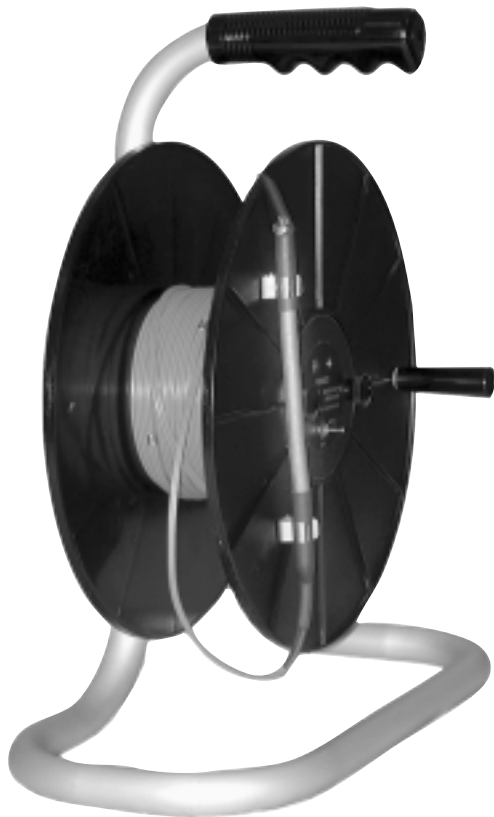


FISHER *m-SCOPE*®

WLT

Water-Level Indicator



Operating Manual

FISHER RESEARCH LABORATORY

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OPERATING INSTRUCTIONS

1. Check the condition of the battery by flipping the toggle switch to the "Batt Test" position. If the battery has a charge, the red LED will light and an audible beep will be heard. If the battery is weak, the light will be dim and the beep will be weak. Replace the standard 9-volt transistor battery by removing the two black knobs that hold the control panel in place and lifting out the module. After replacing the battery, carefully fit the module back in place and replace the black knobs, finger tight.
2. To familiarize yourself with the action of the unit, dip the electrode into a jar of water. When the electrode touches the water, the LED will light and a beep will be heard.
3. Make sure the toggle switch is in the "ON" position. Slowly lower the electrode cable into the well, keeping an eye on the cable markers, which are spaced every 5 feet. Every other cable marker - at 10, 20, 30, etc. feet - is marked with a number: No. 1 marks 10 feet, No. 2 marks 20 feet, No. 3 marks 30 feet, etc.
4. When the LED lights and the beep is heard, the electrode has reached the water. Check the position of the nearest cable marker to calculate the water level. For draw-down tests, initially lower the electrode unit when the well is not pumping. This will help keep the cable and electrode assembly from getting tangled around the pump column.
5. Turn off the instrument when not in use to conserve the battery.
6. When the job is completed, wash the electrode assembly with fresh water and dry it thoroughly.
7. If your Fisher WLT is cared for in the manner due any fine piece of equipment, you will be assured long and dependable service.

SPECIAL INSTRUCTIONS

“Hard” (Mineralized) Water

When using the unit in areas of hard water, the LED and audio beep may continue to respond after the electrode is withdrawn from the water. In this case, it will be necessary to completely rewind the WLT to dry or blow out the electrode before taking a second reading.

Oil Contamination

Lubricated parts of the pump and pump motor occasionally leak, causing a layer of oil to float above the water level. This oil will foul the electrode assembly unless special precautions are taken. If oil is suspected, place one of the small bags (probe covers) that accompany the instrument over the electrode assembly, and fasten it securely. Wet the bag and then proceed, following the instructions given above. Wetting the bag will help it pass through the oil with a minimum of contamination. The texture of the bag allows water but prevents oil from readily passing through. An accurate reading of the water level can be obtained by slowly withdrawing the electrode assembly once it is definitely below the water level. *The audible beep and LED will indicate when the electrode has passed the oil-water contact. If the electrode becomes contaminated with oil, it should be washed with dish detergent and thoroughly rinsed.*

Short-Circuited Cable or Electrode

Cable damage or hard-water residue on the electrode assembly may short out the instrument, resulting in a lighted LED and an audible beep when the instrument is turned on. Locate and repair any shorts in the cable, and shake or blow out all residue from the electrode assembly before using the instrument. Any short, if left unrepaired, will cause battery drain when the instrument is left on.

Custom Specifications

The WLT series cable comes in standard lengths of 100, 200, 300, 400 and 500 feet, with crimped brass markers every five feet and a lead electrode. Metric lengths of 50, 100 and 150 meters are also available with brass markers at one-meter intervals. For special applications, Fisher Research Laboratory

will custom manufacture any cable length up to 500 feet, marked in feet or meters. A heavy-duty brass electrode is optional. If longer lengths are required, the Fisher WLX series is available in standard lengths of 300, 500, 750, 1,000 and 1,500 feet. For greater measuring precision, request data on the Fisher WLZ Series with calibrated steel tape and available in 100, 200, 300 and 400 feet, and 50 and 100 meters.

Serial Number

The serial number of each WLT unit is located inside the cable spool. To access the serial number, remove the two black knobs that hold the control panel in place. Carefully remove the control module, revealing the serial number on the inside of the spool.

PARTS LIST

Part #	Description
	Replacement Cable:
201656-3130	300 Ft. Tagged and w/ Lead Electrode
201656-3150	500 Ft. Tagged and w/Lead Electrode
201577-3240	300 Ft. Tagged and w/Brass Electrode
201577-3260	500 Ft. Tagged and w/Brass Electrode
	Replacement Cable (Metric):
201946-3170	100 M. Tagged and w/Lead Electrode
201946-3180	150 M. Tagged and w/Lead Electrode
202973-3310	100 M. Tagged and w/Brass Electrode
202973-3320	150 M. Tagged and w/Brass Electrode
	Miscellaneous:
673051	Probe Cover (T-Bag)
150884	9-Volt Battery
201656	Lead Electrode Assembly (w/36" of cable)
201577	Brass Electrode Assembly (w/36" of cable)
943061	Brass Markers (Specify Blank or Numbered)
202167	Hard Carrying Case

SPECIFICATIONS

Accuracy Guaranteed accuracy is $\pm 0.4\%$ from probe tip to any marker.

Operating Temp 32°F to 120°F , (0°C to 50°C)

Battery (1) 9V (NEDA 1604)

Weight:

WLT (w/300' cable) 11 lbs. (5k)

Shipping Weight:

WLT 300' cable 13 lbs. (5.9k)

WLT 300' cable w/hard case 18 lbs. (8.2k)

Shipping Size:

WLT (all models): $17'' \times 14\text{-}3/4'' \times 8''$
($43\text{cm} \times 37\text{cm} \times 20\text{cm}$)

WLT in hard case: $19\text{-}1/2'' \times 16\text{-}3/4'' \times 8\text{-}3/4''$
($49\text{cm} \times 42\text{cm} \times 22\text{cm}$)





QUALITY

Fisher detectors are renowned for their quality.
Each instrument is hand crafted in the USA with pride

PERFORMANCE

Our detectors are durable, dependable, and search deeper.

REPUTATION

Fisher produced the first patented metal detector in 1931. For over 70 years, the Fisher logo has been a mark of excellence.

2 - YEAR WARRANTY

Fisher believes in the products we produce and backs this belief with a 2 year limited warranty, Warranty may vary outside the United States. See your dealer for details

SERVICE

Fisher is committed to providing you, our valued customer, with superior service. Each and every instrument is rigidly tested and carefully inspected during assembly and before shipment.

Should you have any questions or problems, contact:

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