Fluke Networks MicroProbe Specs
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MICROTOOLS

MICRONETBLINK™ KIT

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MicroNetBlink™
MicroProbe™

User Guide
Manuel Utilisateur
Benutzer Handbuch
Manuale per l'utente
Guía del Usuario
Manual do Utilizador

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***Congratulations on your purchase of* MICRONETBLINK *and/or* MICROPROBE!**

The **MICRONETBLINK** is a practical network installation and troubleshooting tool that flashes a hub light, features a unique tone signal, two test leads, 8-conductor twisted pair cable (RJ45), and a 4-conductor modular cable (RJ11) to test standard Cat 5 cabling, COAX cables, and bare wires. **MICRONETBLINK** also does continuity tests and checks tip/ring telephone signals. The signal emitted by the **MICRONETBLINK** can be easily traced by the **MICROPROBE**, even when cables are in a bundle or hidden in walls or ceilings. Use **MICRONETBLINK** and **MICROPROBE** to locate hub ports, verify cable continuity, determine line polarity and voltage in local network twisted pair cabling and modular telephone lines. The **MICROPROBE** is equipped with a tone amplifier and an LED indicator that detects audible frequency tones for accurate tracing and identification of wires.

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MicroNetBlink & MicroProbe

MICRONETBLINK *Features*

- 2-position NetBlink/Tone button for flashing a hub light or toning
- Toggle switch to control 3 modes of operation
- 2-color LED indicator for telephone line polarity, continuity and voltage testing
- 8-pin modular cable (RJ45) for flashing hub lights, tracing cables, and locating jacks
- Black and red alligator testing leads and standard 4-pin modular cable for individual wire tests or modular jack RJ11 tests
- Convenient compact size and simple application
- Low battery indicator

MICROPROBE *Features*

- Special inductive plastic tip that prevents accidental shorts (possible with copper-tip tracers)
- Traces and identifies wires or cables in a bundle or group without damaging cable insulation
- Locates RJ45 jacks in wiring systems
- Adjustable volume level control and LED indicator for noisy work environments
- Power switch prevents battery drain
- Works with all tone generators including MICROSCANNER PRO, MICROMAPPER, MICRONETBLINK
- Low battery indicator

Battery

MicroNetBlink requires a 9 Volt Alkaline battery.

MicroProbe requires a 9 Volt Alkaline battery.

The low Battery LED will light up when a low battery condition is detected.

Using the units with a low battery may effect the test accuracy.

If the units are stored for more than one month, the battery should be removed.

High Voltage Protection

Do not touch the tip of **MicroProbe** to the active circuit contact or line.

Remember to adjust the volume rotary to reach an ideal volume level.

Do not expose the units to extreme humidity or direct sunlight.

Do not open the units or attempt to repair in case of malfunction. Please send it back to your distributor for repair or replacement.

MicroNetBlink is designed to withstand input voltage conditions that arise from normal telephony applications such as 48 VDC at less than 80 ma or 24 VAC used to power many keysets. Tests cannot be performed when hazard conditions exist on the inputs.

Flashing the Hub Light Status

1. Set the toggle switch to the **Signal** position.
2. Plug the 8-position cable (RJ45) into the jack to be tested.
3. Verify that the button on the face of the **MICRONETBLINK IS** in the **NETBLINK** position.
4. In the wiring closet, view a light that blinks once every 4 seconds at the port to which the cable is connected.

MICRONETBLINK will blink the hub's status indicator to assist locating a single channel in a busy wiring closet.

Sending a Tone

1. Set the toggle switch to the **Signal** position.
2. Connect the black lead to ground and any other cable (coax, RJ45, or red alligator) to the cable to be traced.
3. Press the button to **TONE** position to activate the toner.
4. Reception of the tone will be loudest (Speaker) or brightest (LED) on the wire under test.

Caution: Do not connect to an active AC circuit exceeding 24 V in this mode.

Identifying Telephone Line Polarity

1. Set the toggle switch to the **Off/Volt** ✓ position.
2. Connect the black alligator test lead to the TIP (+) connection, usually green or blue.
3. Connect the red alligator test lead to the RING (-) connection, usually red or marked R.

The LED indicator will light up:

GREEN indicates normal polarity

RED indicates reversed polarity

RED/GREEN indicates presence of AC power on the telephone line

Verifying Telephone Lines

1. Set the toggle switch to the **Off/Volt** ✓ position.
2. Insert the standard 4-pin modular cable into the modular wall jack, or connect the red alligator test lead to the RING (-) and the black alligator test lead to the TIP (+).

The LED indicator will light up:

GREEN indicates a correct wired telephone circuit that is on-hook

GREEN (DIM) indicates a correct wired telephone circuit already in use or off-hook

RED indicates a reversed polarity phone circuit

3. Use a second phone line to dial the number under test.

RED and GREEN (rapidly flashing) indicates a ringing signal.

4. Set the toggle switch to **Cont** ✓ to answer the line or go off-hook.

Note: *The brightness of the GREEN line status is an indicator of the amount of telephone loop current present while the toggle switch is in the* ***Cont*** ✓ *position.*

CAUTION: Telephone circuit voltages can be hazardous, never touch the metal of the test leads while the MicroNetBlink is attached to a telephone line.

Testing for Low Voltage

CAUTION: MicroNetBlink is designed for checking low voltage (less than 24 Volts DC or AC only). Do not connect to any high voltage circuits!

1. Set the toggle switch to the **Off/Volt** ✓ position.
2. Connect the **red** alligator test lead to a wire of the pair or circuit.
3. Connect the **black** alligator test lead to the other wire of the pair or circuit.

If the LINE STATUS is GREEN, the **black** test lead is connected to a NEGATIVE(-) DC Voltage

If the LINE STATUS is RED, the **black** test lead is connected to a POSITIVE (+) Voltage

If the LINE STATUS is RED/GREEN, AC Voltage is present.

Testing Continuity

1. Set the toggle switch to the **Cont** ✓ position.
2. Connect the **red** and **black** alligator test leads to the circuit to be tested.

   The LED indicator will light up:

   GREEN indicates a low resistance path from RED LEAD (+) to BLACK LEAD(-)

   GREEN (DIM) indicates that there is a high resistance path

   OFF indicates an open circuit.

Testing Continuity using Tone

1. Set the toggle switch to the **Signal** position.
2. Connect the test leads to the pair to be tested.
3. Using a handset or headset at the remote end, touch the wire end(s) with the clip lead(s).

Reception of tone is an indication of continuity.

All above tests are applicable to modular plugs for line 1 only (red & green wires).

Coax Testing

- To test un-terminated coaxial cables connect the red test lead to the outer shield and the black test lead to the center conductor, or connect the red test lead to the outer shield and the black test lead to the ground.

- To test terminated coaxial cables, connect the red test lead to the connector housing and the black test lead to center pin, or connect the red test lead to the connector housing and the black test lead to the ground.

Appendix A

MICRONETBLINK

- Dimensions: 4.53" x 2.49" x 1.03"
  115mm x 63mm x 26mm
- Weight: 19g
- Power: 9V alkaline DC battery (not included)
- 1 ft. each of red and black alligator test lead for voltage and continuity testing
- 1 ft 4-pin modular RJ11 cord and plug for voltage and continuity testing
- 1 ft 8-pin modular RJ45 cord and plug for tone tracing, includes NetBlink feature to cause a 10 Base T or 10/100 Base T hub light to blink once every 4 seconds for easy identification in a busy wiring closet
- 1 'F' connector for tone tracing
- 3- position switch for operation mode control
- 2-color LED display for line polarity, continuity, and voltage tests
- Green LED indicates NetBlink active
- Red LED for low battery

MICROPROBE

- Dimensions: 8.00" x 1.3" x 1.50"
  203mm x 35mm x 38mm
- Weight: 16g
- Power: 9V alkaline DC battery (not included)

- Pen-style casing
- Special inductive plastic tip
- One push-button TRACE switch
- One battery low LED indicator
- One speaker and one LED for signal detection
- One rotary volume level switch

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Each Fluke Networks product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year and begins on the date of purchase. Parts, accessories, product repairs and services are warranted for 90 days. This warranty extends only to the original buyer or end-user customer of a Fluke Networks authorized reseller, and does not apply to disposable batteries, cable connector tabs, cable insulation-displacement connectors, or to any product which, in Fluke Networks' opinion, has been misused, altered, neglected, contaminated, or damaged by accident or abnormal conditions of operation or handling. Fluke Networks warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. Fluke Networks does not warrant that software will be error free or operate without interruption.

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To obtain warranty service, contact your nearest Fluke Networks authorized service center to obtain return authorization information, then send the product to that service center, with a description of the difficulty, postage and insurance prepaid (FOB Destination). Fluke Networks assumes no risk for damage in transit. Following warranty repair, the product will be returned to Buyer, transportation prepaid (FOB Destination). If Fluke Networks determines that failure was caused by neglect, misuse, contamination, alteration, accident or abnormal condition of operation or handling, or normal wear and tear of mechanical components, Fluke Networks will provide an estimate of repair costs and obtain authorization before commencing the work. Following repair, the product will be returned to the Buyer transportation prepaid and the Buyer will be billed for the repair and return transportation charges (FOB Shipping Point).

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