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Fluke Networks MT-8200-63A

Fluke Networks IntelliTone Pro200 Probe User Manual

Model: MT-8200-63A

Introduction

The Fluke Networks IntelliTone Pro200 Probe is an advanced network and cable testing device designed to locate, trace, and isolate copper cabling in both active and inactive network environments. It utilizes digital and analog toning technologies to provide precise cable identification, even within bundles or at patch panels. This manual provides comprehensive instructions for the safe and effective use, maintenance, and troubleshooting of your IntelliTone Pro200 Probe.

Figure 1: The Fluke Networks IntelliTone Pro200 Probe.

Safety Information

Always observe the following safety precautions when operating the IntelliTone Pro200 Probe:

- Read and understand all instructions before use.
- Do not use the probe if it appears damaged.
- Ensure proper battery installation and replacement. Use only specified battery types.
- Avoid exposing the device to extreme temperatures, moisture, or direct sunlight.
- Do not attempt to service the device yourself. Refer all servicing to qualified personnel.
- Always disconnect the probe from any network or cable before cleaning or performing maintenance.

Product Overview

The IntelliTone Pro200 Probe features intuitive controls and indicators for efficient cable tracing and testing.

Figure 2: Key components and indicators of the IntelliTone Pro200 Probe.

1. **LEDs:** Indicate signal strength and wire connectivity. These LEDs light successively as the signal strength increases, aiding in precise cable isolation.
2. **SYNC LED:** Indicates detection of an IntelliTone signal and shows battery strength upon power-up.
3. **Thumbwheel:** Used to select the desired toning mode (IntelliTone Digital, Analog, or Cable Map).
4. **Locate Cables at a Distance:** This feature assists in finding cables from a distance.
5. **Isolate Cables in Bundles or at Patch Panels:** Designed for precise identification of a single cable within a group.
6. **Analog Mode to Isolate Individual Wire Pairs with SmartTone™:** For tracing and isolating individual wire pairs on inactive networks.
7. **Test Cable Continuity:** Used in conjunction with the Cable Map function to verify cable integrity.
8. **RJ45 Plug:** For connecting to RJ45 jacks for cable mapping and toning.

Setup

Battery Installation

The IntelliTone Pro200 Probe is powered by a 9V battery (not included). To install or replace the battery:

1. Locate the battery compartment cover on the back of the probe.
2. Open the cover by sliding or unlatching it according to the markings.
3. Insert a new 9V alkaline battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Upon power-up, the SYNC LED will briefly illuminate to indicate battery strength. A bright, steady light indicates good battery life, while a dim or flickering light suggests the battery needs replacement.

Operating Instructions

General Operation

To turn on the probe, rotate the thumbwheel to select the desired mode. The probe will automatically turn off after 1 hour of inactivity to conserve battery life.

IntelliTone Digital Toning (for active networks)

This mode is used to trace and locate cables on active Ethernet networks without disconnecting equipment. It detects the IntelliTone digital signal generated by a compatible toner (e.g., IntelliTone Pro 200 Toner).

1. Connect the IntelliTone toner to the cable you wish to trace.
2. Rotate the probe's thumbwheel to the IntelliTone Digital mode.
3. Move the probe tip along the suspected cable path. The LEDs will light up and an audible tone will be emitted, increasing in intensity as you approach the toned cable.
4. Use the signal strength LEDs to precisely isolate the cable within a bundle or at a patch panel.

Figure 3: Tracing cables in a network rack using the IntelliTone Pro200 Probe.

Analog Toning (for inactive networks)

This mode is used for tracing and locating cables on inactive networks, or for identifying individual wire pairs using SmartTone™ technology.

1. Connect an analog toner (e.g., Fluke Networks Pro3000 Analog Probe) to the cable.
2. Rotate the probe's thumbwheel to the Analog mode.
3. Move the probe tip along the cable path. The probe will detect the 500 to 1200 Hertz analog signal.
4. For SmartTone™ functionality, briefly short the wire pair at the far end of the cable. The tone will change, confirming the correct pair.

Cable Map Function (for RJ11/RJ45 validation)

The Cable Map function allows for quick validation of RJ11 and RJ45 connectors by testing continuity and identifying wiring faults on all 4 pairs of UTP and STP twisted pair cabling. This requires a compatible IntelliTone toner with cable map capabilities.

1. Connect one end of the cable to the RJ45 plug on the IntelliTone Pro200 Probe.
2. Connect the other end of the cable to the cable map port on your IntelliTone toner.
3. Rotate the probe's thumbwheel to the Cable Map mode.
4. Observe the LEDs on the probe. They will indicate continuity for each wire pair and identify common wiring faults such as opens, shorts, and crossed pairs.

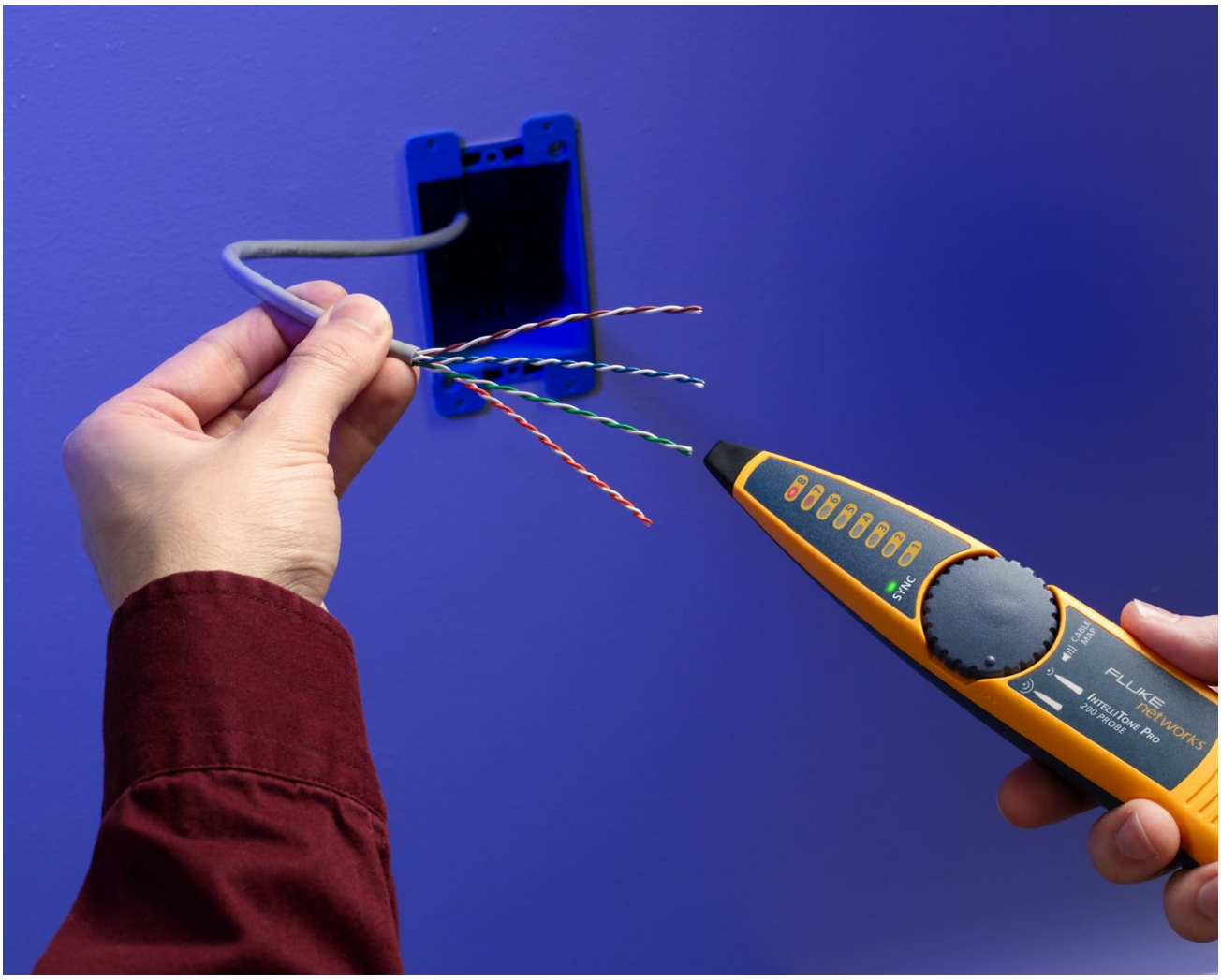

Figure 4: Testing a wall jack for cable continuity and wiring faults.

Maintenance

Cleaning

To clean the probe, wipe it with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is completely dry before storage or next use.

Battery Replacement

Replace the 9V battery when the SYNC LED appears dim or flickers upon power-up, or if the probe's performance degrades. Refer to the "Battery Installation" section under Setup for detailed instructions.

Storage

Store the probe in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Probe does not power on.	Dead or incorrectly installed battery.	Replace battery or ensure correct polarity.

Problem	Possible Cause	Solution
No signal detected in IntelliTone mode.	Toner not active or not compatible; cable not connected.	Ensure toner is on and transmitting IntelliTone signal. Verify cable connection.
Weak or inconsistent signal.	Low battery; interference; cable too far.	Replace battery. Move away from sources of interference. Ensure probe is close to the cable.
Cable Map function shows errors.	Cable fault (open, short, cross); improper connection.	Inspect cable for damage. Re-seat connections. Replace cable if necessary.

Specifications

Feature	Detail
Brand	Fluke Networks
Model	MT-8200-63A (IntelliTone Pro200 Probe)
Power Source	9V Battery (Alkaline recommended)
Toning Technology	IntelliTone Digital, Analog (500-1200 Hz)
Cable Types Supported	Copper cabling (UTP, STP)
Connectors	RJ11, RJ45 (for Cable Map function)
Auto Shut-off	Yes, after 1 hour of inactivity
Dimensions (L x W x H)	11.81 x 15 x 3.94 inches (approximate)
Color	White (with yellow and blue accents)

Warranty and Support

Fluke Networks products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please visit the official Fluke Networks website or contact their customer service department.
Official Fluke Networks Store: Fluke Networks on Amazon

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