

TECHNICAL DATA

Fluke Networks MicroScanner™ PoE Industrial Ethernet Cable Verifier Kit



Key features

- Perform Cable Testing on Industrial Ethernet Networks (including Ethernet/IP, Profinet, EtherCat based systems)
- Display cable length, wiremap and distance to fault
- Display network switch speeds up to 10G and PoE
- Locate and trace cable with IntelliTone(TM) and Remote ID set
- Report PoE class (0-8)

Product overview: Fluke Networks MicroScanner™ PoE Industrial Ethernet Cable Verifier Kit

The Fluke Networks MicroScanner™ PoE Industrial Ethernet cable verifier performs continuity tests on RJ45, M12X, M12D, and M8D terminated cables in a few seconds and displays results graphically so you can see opens, shorts, and cross wires.

The MS-POE also quickly determines if a problem is caused by insufficient power or the powered device. Cable and power failures result in costly production downtime so it's important to quickly identify where the cable is broken so it can be replaced or repaired.

Includes IntelliTone Pro 200 Probe, Remote ID kit, Duffel Bag, Multi-Connector Adapter, Cat6A patch cord, RJ45 male to RJ45 female patch cord , RJ45/M12X patch cord, RJ45/M12D patch cord, RJ45/M8D patch cord for testing of M12X, M12D, M8D terminated cables.

Specifications: Fluke Networks MicroScanner™ PoE Industrial Ethernet Cable Verifier Kit

Specifications apply at 23 °C (73 °F), unless otherwise noted.

| Environmental specifications | |
|---|---|
| Operating temperature | 32 °F to 113 °F (0 °C to 45 °C) |
| Storage temperature | -4 °F to +140 °F (-20 °C to +60 °C) |
| Operating relative humidity (% RH without condensation) | 90 % (50 °F to 95 °F 10 °C to 35 °C) 75 % (95 °F to 113 °F 35 °C to 45 °C) |
| Shock and Vibration | Random, 2 g, 5 Hz-500 Hz (Class 2) 1 m drop test with and without wiremap adapter attached |
| Safety | IEC 61010-1 3rd Edition |
| Altitude | 4,000 m; Storage: 12,000 m |
| EMC | IEC 61326-1 |
| General specifications | |
| Test connectors | Shielded 8-pin modular jack accepts 8-pin modular (RJ45) and 4-pin modular (RJ11) plugs. |
| Power | Battery type: 2 AA (NEDA 15A, IEC LR6) alkaline batteries Battery life: 20 hours of typical use Other compatible battery types: 2 AA photo lithium, NIMH, NICAD |
| Dimensions and weight (with batteries installed and wiremap adapter attached) | 3 in x 6.4in x 1.4 in (7.6 cm x 16.3 cm x 3.6 cm) MicroScanner™ PoE: 10.6 oz (300 g) |
| Display | Monochrome LCD with backlight |
| Test modes | |
| Cable test | Measures length, verifies wiremap, identifies remote ID locators, and detects Ethernet ports. MicroScanner™ PoE also shows HIGH Ω when the resistance of the cable is more than 12.5 Ω . Displays results on one screen. |
| Tone | Generates IntelliTone™ and normal analog toning signals |
| PoE | MicroScanner™ PoE: Solicits and detects the presence of 802.3af, at, bt, and UPOE (Cisco's Universal Power over Ethernet) compatible PoE devices |
| Performance specifications | |
| Cable types tested | Twisted pair: UTP, FTP, SSTP |
| Length test | Range: 460 m (1500 ft) Resolution: 0.3 m (1 ft) Typical accuracy: \pm 4% or 0.6 m (2 ft) whichever is greater. NVP uncertainty is an additional error. Calibration: User-settable NVP for twisted pair. Can determine actual NVP with known length of cable. |
| Wiremap test | Detects single-wire faults, shorts, miswires, split pairs, and up to seven far-end adapter IDs. The wiremap is drawn with proportional length to visually indicate the approximate location of faults. |
| Ethernet port detection | MicroScanner™ PoE: Detects the advertised speed of 802.3 Ethernet ports with speeds of 10 Mbps, 100 Mbps, 1 Gbps, 2.5 Gbps, 5 Gbps, and 10 Gbps. |



| | |
|----------------|---|
| Tone generator | Supports toning and cable mapping with a Fluke Networks digital IntelliTone™ probe. Generates four tones compatible with typical analog probes. SmartTone™ feature gives positive identification of cables in bundles when using an IntelliTone or an analog probe. |
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Ordering information



MS-POE-IE-KIT

MS-POE-IE-KIT Cable Verifier Kit

Includes:

- MicroScanner™ PoE Industrial Ethernet Professional Kit with IntelliTone Pro 200 Probe
- Remote ID kit
- Duffle Bag
- Multi-Connector Adapter
- Cat6A patch cord
- RJ45 male to RJ45 female patch cord
- RJ45/M12X patch cord
- RJ45/M12D patch cord
- RJ45/M8D patch cord for testing of M12X
- M12D
- M8D terminated cables

Optional accessories

Fluke Networks MS2-MAG-KIT Magnetic Strap Attachment and Spare Holster

Description

Holster with magnetic strap for MicroScanner™ cable tester, FI-500 FiberInspector™ Micro, SimpliFiber® Pro, and MultiFiber™ Pro



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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

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