FIO 1218592

(Network Tester + Label Printer)
Datasheets for both products follow this page.

FLUKE networks®

Verify the Quality of Your Installation

Verification is the minimum indicator of installation quality for many cabling types, and plays an important role in the success of any Voice, Datacom, or Video (VDV) cabling installation. Whether you're performing new cabling installations or working with existing cabling infrastructure for moves, additions, or configuration changes, you can quickly verify your work with an affordable test tool and have confidence in a quality installation.

What is verification testing?

Verification testing confirms that a cable meets established national or international standards of conductor configuration and passes basic continuity testing. Verification may be performed on two conductors or multi-conductor twisted pair cabling. Look to Fluke Networks' MicroScanner Pro and MicroMapper to perform basic verification testing, as well as troubleshoot and solve wiring mistakes before they become real problems. Both award-winning products are backed by the superior support you've come to expect from Fluke Networks, the leader in network testing.

MicroScanner™ Pro
The essential cable verification tester

The MicroScanner™ Pro is a powerful verification tool designed to confirm basic installation quality of multiple cable types. It automates the testing of cable conductor continuity and configuration, and provides necessary information to rapidly solve problems including the location of cable faults. MicroScanner Pro tests coaxial cable (RG6, RG59, etc., for CATV/CCTV), twisted pair cable (UTP/STP/SSTP), and other wiring for audio, control, security or basic telephone service. The MicroScanner Pro speeds basic live network testing with powerful network tap service and speed identification.

Quickly identify problems

Use the MicroScanner Pro for verification to ensure basic continuity and correct terminations. The wiremap test checks end-to-end continuity on all UTP cable four-wire pairs to quickly verify if the cable under test has the correct wiring scheme (either 568A or 568B) and identifies any cabling problems. MicroScanner Pro quickly identifies a fault (see Figure 1), allowing you to see opens, shorts, crossed pairs, split pairs or any miswires.
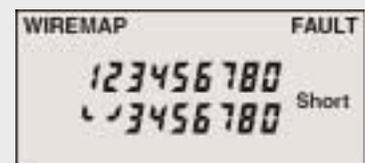
Figure 1. Pairs 1-2 are shorted.

See how to ensure cable configuration quality with Fluke Networks verification tools

Troubleshooting tools save you time

What happens when a fault is detected? You waste valuable time with visual inspection or troubleshooting by process of elimination. With the push of a button, MicroScanner Pro's length function uses Time Domain Reflectometry (TDR). TDR acts like "cable radar" to measure the distance to an open or short in each conductor pair, or the overall length of the cable. TDR provides the critical information necessary to determine whether to repair punched down conductors at the block, replace a port or connector, or pull a new cable. Overall cable length measurement is useful for tracking cable usage for billing and inventory purposes.
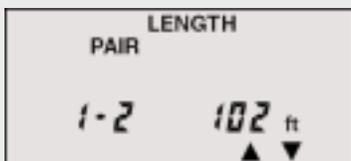

Figure 2. Showing 1-2 pair length.

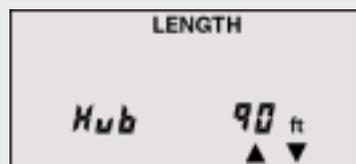TDR even identifies the distance to active network taps such as hubs or nic cards.

Figure 3. Active network hub detected at 90 ft.

Identify active network connections

MicroScanner Pro's active network identification mode flashes hub ports and shows you if a network tap is operating at 10 Mbps or 10/100 Mbps and whether it is full or half duplex capable. It also identifies workstation network interface cards.

Figure 4. 10 Base-T signal detected, wired to PC.

Tracing and locating cables

MicroScanner Pro's toner function allows you to generate a 1000 Hz tone detectable by standard analog probes to trace and locate hidden cabling in walls, ceilings or distribution boxes. Four unique selectable tones help identify different users toning at the same time.

Identify cabling links from the wiring closet

MicroScanner Pro Office/Room Identifier allows you to identify cabling drops for an office or room during adds, moves and changes, and it helps determine routing at the patch panel and documents twisted pair and coaxial cabling installations. Use the Office Identifier Plugs (shown below)

to attach to the far end of the link (at the workstation/office) and the MicroScanner Pro will display the office number on the display (see Figure 5).

Figure 5. Office/Room #4 termination ID.

MicroScanner Pro features

- Tests all common copper cable types: bare wire, coaxial cabling, UTP and STP cabling
- Checks wire configuration (wiremap) to ANSI/TIA/EIA 568A, 568B standards
- Speeds identification and troubleshooting of common miswires such as opens, shorts, crossed and split pairs
- Uses patented TDR technology to ensure accurate pair length measurements
- Flashes hub light to help identify pairs
- Generates four unique tones for locating cables hidden in walls, ceilings, or wiring closets
- Identifies active networking 10 Base-T/ 100Base-T hubs
- Identifies half or full duplex capability
- Matches (UTP or coaxial) cables to offices during adds, moves and changes
- Enables patch cable testing without couplers or external adapters
- Comes with one-year warranty

MicroScanner Pro Accessories

Bare-wire Adapter (MT-8203-16)

Coax Adapter (MT-8203-15)

Wiremap Adapter (MT-8203-14)

Office Identifier Plugs (MT-8203-17)

Carrying Case (MT-8202-04)

MicroMapper™
The fast, comprehensive LAN wiremap checker

The MicroMapper is a small, handheld cable tester that enables network professionals to verify the integrity of Ethernet twisted-pair cabling in one quick step. The MicroMapper quickly and easily tests twisted-pair cabling, allowing you to see opens, shorts, crossed, reversed and split pairs. Simply push the TEST button, and the MicroMapper will automatically scan all wire pairs for any existing faults in your cable. The MicroMapper also includes a remote unit to easily enable one-person testing of installed cabling or patch cords. The MicroMapper includes a built-in tone generator that allows you to trace cable through walls, floors, and ceilings when used with IntelliTone Probe, or any other analog probe.

Features

- Verifies UTP/STP network cable to ANSI/TIA/EIA 568A and 568B
- Tests twisted-pair cables for open circuits, shorts, crossed pairs, reversed pairs and split pairs
- Easy-to-read LED fault display
- Tone generator works with IntelliTone Probe or any other analog probes
- Conducts shield integrity testing
- Features self-storing remote unit to allow one-person testing of installed cables
- Includes extended battery life with automatic sleep mode
- Low-battery LED
- Comes with one-year warranty

Specifications

Product	Specs
MicroScanner Pro	**Dimensions:** 5.5" x 3.25" x 1" (139.7 x 82.5 x 25.4 mm)
	Battery: 9-volt alkaline battery; low battery indication
	Display: custom LCD, 1.75" x .85" (44.45 x 21.59 mm)
	Applications: shielded (STP) and UTP cable; 75 or 50 Ohm Coaxial cable; 10 Base-T or 10/100 Base-T networks
	Main tester interface: modular 8 connector for length, 10/100 link identification, wire map, office identifier, toner; loopback interface: module 8 connector used for patch cable wiremap
	Length measurement: measures length on all 4 pairs and displays in feet or meters; ±4% or ±2 ft whichever is greater, max length 1500 ft (457 m)
	Length calibration: user selectable NVP, NVP calculation based on known cable length (min. length 50 ft (15 m) and max. length 1500 ft (457 m)
	Wiremap and Office/Identifier: faults detected: opens, shorts, reversed pairs, swapped pairs, and split pairs, distance maximum length: 656 ft (200M)
	Office Identifier: 6 passive test plugs attached to far end (identified as #1-3 and #5-7); distance maximum length 656 ft (200 mm)
	Toner frequency: user may select 1 of 4 predefined tone sequences
	Toner Interface: main Mod8 port for tone generation on all 4 pairs. Ground jack provided for grounding MicroScanner Pro during trace operations.
	High voltage input/protection: the test interface withstands input hazard conditions that arise from normal telephone interfaces (48 VDC at less than 80 mA) or 24 VAC power used to power many telephone keysets.
Wiremap Adapter	**Dimensions:** 2.25" x .5" x .625" (57.15 x 12.7 x 15.875 mm)
Coax Adapter	**Dimensions:** 3" x .63" x .58" (76.2 x 16 x 14.7 mm)
MicroMapper	**Dimensions:** 4.93" x 2.05" x 1.18" (125 x 52 x 30 mm)
	Weight: 0.28 lbs (130 g)
	Minimum length for split pair detection: 2 ft (0.6 m)
	Maximum Testing length for twisted pair cables: 656 ft (200 m)
	Battery: (4) 1.5-volt AAA alkaline batteries; low battery indication by LED

Ordering Information

Model Number	Items Included
MT-8200-32A	**MicroScanner Pro** Includes: MicroScanner Pro, Wiremap Adapter (Office ID 4), Coax Adapter (CATV type, F-connector), 9-volt Alkaline battery, Quick Reference Guide, and User CD
MT-8200-24A	**MicroScanner Pro VDV Kit** Includes: MicroScanner Pro, IntelliTone Probe, wiremap adapter, coax adapter (CATV type, F-connector), office/room ID kit, 9-volt alkaline battery, Quick Reference Guide, and User CD
	MicroScanner Pro Accessories
MT-8202-04	MicroScanner Pro Carrying Case
MT-8203-15	Coax Adapter Replacement Part (RJ45 to F Connector)
MT-8203-17	Office/Room ID Kit (IDs 1 – 3, 5 – 7)
MT-8203-14	Wiremap Adapter Replacement Part (Office ID 4)
MT-8203-16	Bare Wire Adapter (with alligator clips)
MT-8200-49A	**MicroMapper** Includes: MicroMapper and MicroMapper Remote, RJ45 patch cable, (4) 1.5 Volt AAA alkaline batteries, Quick Reference Guide, and User CD

Fluke Networks delivers Network SuperVision

Fluke Networks offers the most comprehensive line of premises network testing tools for the inspection, verification, certification, and documentation of copper and fiber optic cabling systems. Network owners, installers and maintainers alike choose our products because they provide superior vision into their networks. From products that stay ahead of your technology needs, to responsive service to keep you up and running, Fluke Networks has everything you need to keep pace in today's fast moving networked world.

NETWORK SUPERVISION

Technical Specifications

Printing Method
Thermal Transfer Printhead (180dpi)

Physical Characteristics
Dimensions
Length: 70mm,
Width: 114mm
Height: 212mm
Weight: 519grams

Keyboard
ABC-layout
To access international characters: Rapid Accented Character Entry, according to the mobile phone principle.

LCD display
2 lines
Rechargeable battery pack life indicator
Display backlighting

Extra protective bumper

Cutter

Operating characteristics
Operating conditions: T°: 4°C-40°C
Humidity 10%-90% RH
Storage conditions: T°: 0°C-90°C
Humidity 10%-90% RH
CE approved

Handheld Part Descriptions

PRINTER & ACCESSORIES

Description		
T107M-SMS-PRINTER–KIT-UK[1]	-	Printer Kit - UK adaptor included
T107M-SMS-PRINTER–KIT-EU[1]	-	Printer Kit - European adaptor included
T107M-SMS-PRINTER–EU	-	Printer only (European)
SMS-CARRY STRAP	-	Soft carry strap
SMS-EU-A/C-ADAPTOR[2]	-	EU Power adaptor
SMS-ASIA-A/C-ADAPTOR[2]	-	UK & Asia A/C Power adaptor
SMS-BATTERY-PACK[3]	-	Rechargeable battery pack
SMS-PRINTER-HARDCASE[4]	-	Hard case

Printer Kit Contents - Printer, rubber protection bumper, user guide, 6AA batteries, power adaptor, hard carry case and two tape cassettes (19mm white flexible nylon tape & 12mm white permanent polyester tape).

CASSETTES[5]

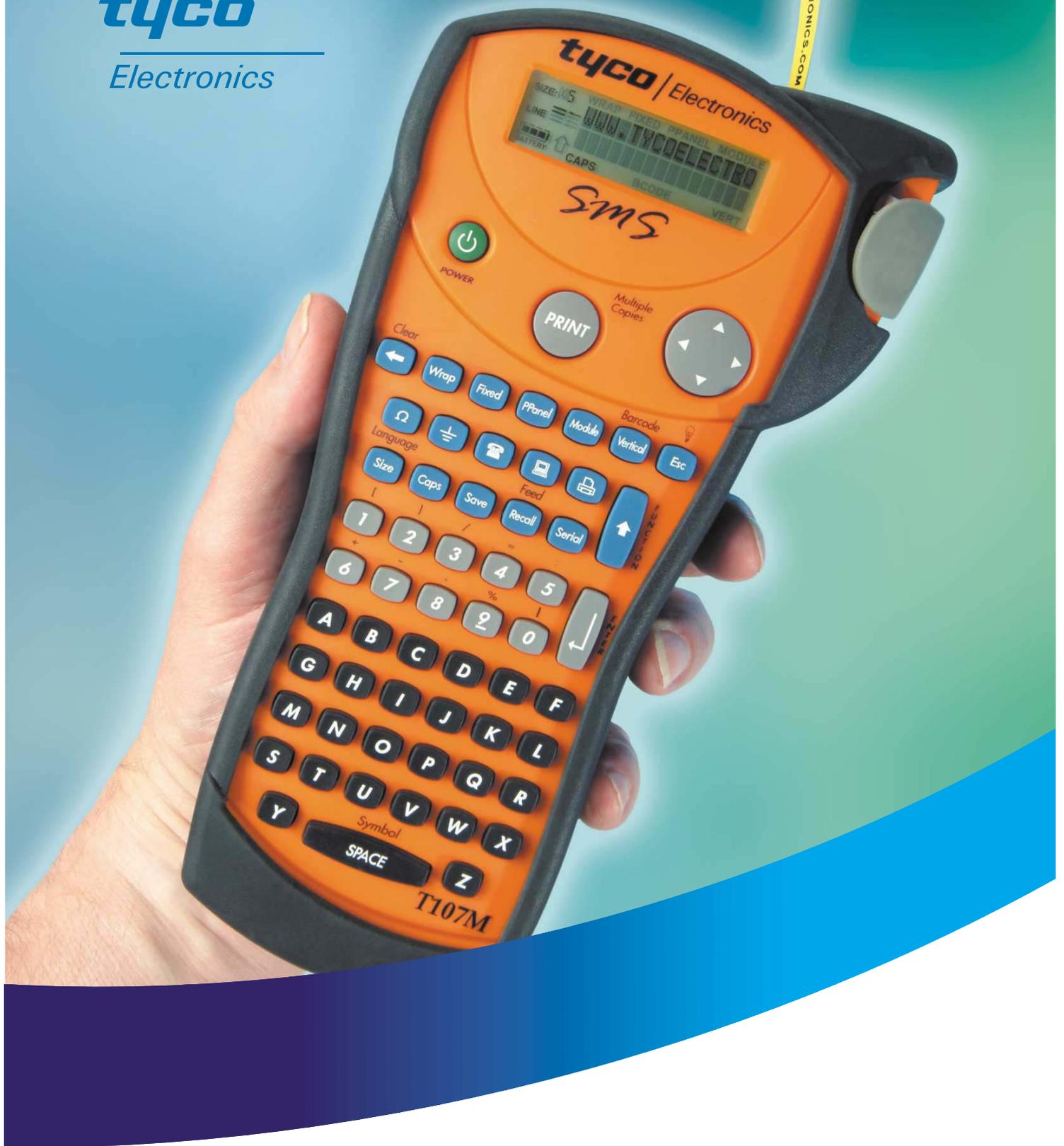| Description	Material	Cable Diameter Range	Length	Shrink Ratio	Colour	Technical Datasheet
SMS-TMS-3.9-4	Heat shrink tubing	1.18mm - 2.33mm	1.5m	3:1	Yellow	TTDS-122
SMS-TMS-3.9-9	Heat shrink tubing	1.18mm - 2.33mm	1.5m	3:1	White	TTDS-122
SMS-TMS-5.2-4	Heat shrink tubing	1.73mm - 3.73mm	1.5m	3:1	Yellow	TTDS-122
SMS-TMS-5.2-9	Heat shrink tubing	1.73mm - 3.73mm	1.5m	3:1	White	TTDS-122
SMS-TMS-7.9-4	Heat shrink tubing	2.97mm - 5.13mm	1.5m	3:1	Yellow	TTDS-122
SMS-TMS-7.9-9	Heat shrink tubing	2.97mm - 5.13mm	1.5m	3:1	White	TTDS-122
SMS-TMS-13.2-4	Heat shrink tubing	4.64mm - 8.70mm	1.5m	3:1	Yellow	TTDS-122
SMS-TMS-13.2-9	Heat shrink tubing	4.64mm - 8.70mm	1.5m	3:1	White	TTDS-122

Description	Material	Width	Length	Colour	Technical Datasheet
SMS-NC-12-4	Nylon Cloth	12mm	3.5m	Yellow	TTDS-123
SMS-NC-12-9	Nylon Cloth	12mm	3.5m	White	TTDS-123
SMS-NC-19-9	Nylon Cloth	19mm	3.5m	White	TTDS-123
SMS-PPNA-6-9	Non adhesive tag	6mm	5.5m	White	TTDS-124
SMS-PPNA-9-9	Non adhesive tag	9mm	5.5m	White	TTDS-124
SMS-V-12-4	Coloured vinyl	12mm	5.5m	Yellow	TTDS-125
SMS-V-12-9	Coloured vinyl	12mm	5.5m	White	TTDS-125
SMS-V-19-2	Coloured vinyl	19mm	5.5m	Red	TTDS-125
SMS-V-19-4	Coloured vinyl	19mm	5.5m	Yellow	TTDS-125
SMS-V-19-5	Coloured vinyl	19mm	5.5m	Green	TTDS-125
SMS-V-19-9	Coloured vinyl	19mm	5.5m	White	TTDS-125
SMS-WP-12-9	Polyester	12mm	5.5m	White	TTDS-126
SMS-WP-19-9	Polyester	19mm	5.5m	White	TTDS-126
SMS-MP-12-8A	Polyester	12mm	5.5m	Metalized	TTDS-127
SMS-MP-19-8A	Polyester	19mm	5.5m	Metalized	TTDS-127

Versatile high-performance
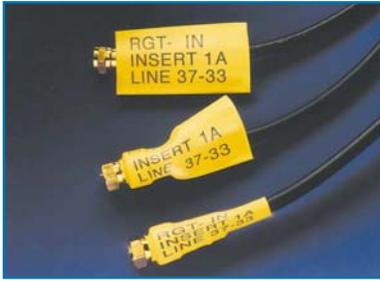identification & labelling
made fast and easy

Versatile high-performance identification & labelling made fast and easy

The new T107M from Tyco Electronics is perfect for the professional user who needs an affordable label printer for on-site applications that's tough and easy to use. Contractors, panel builders and facility managers will save time and money by using the special Hot Keys that provide labels at the touch of a button including wire and cable wraps, module marking, fixed length, serialization, vertical printing, barcodes, symbols and much more.

The T107M offers clear, smudge-free high-performance labels that stick permanently to a variety of surfaces and provides remarkable MIL-spec print permanence on Heat Shrink Tubing. Print media is offered in easy-to-load cassettes and includes an optimized ribbon and choice of material: Heat Shrink & Nylon Cloth, Vinyl, Polyester and Polypropylene labels.
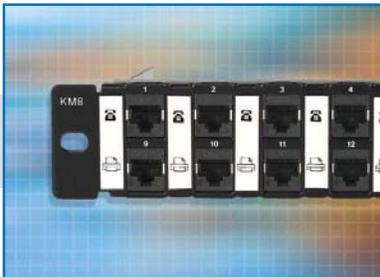
Wire & Cable/
Heatshrink

Hotkeys

Wrapping

Fixed Length

Vertical Printing

Module Marking

Patch Panel