#### MT Tracer Kit

# Fiber Tracing System for MTP®



## Safety Information

**CAUTION!** Use of controls or adjustments other than those specified herein may result in hazardous radiation exposure. The MT Tracer Source is a registered **FDA & IEC Class II** laser product.







**WARNING!** To avoid serious eye injury, never look directly into the output of any optical fiber cable, jumper, or source. Refer to your company's safety procedures when working with optical systems.

**CAUTION!** Do not run any tests unless fiber is attached to the MT Tracer Source port.

**CAUTION!** MT Tracer Source and MT Tracer Display contain no user serviceable parts. Except for changing batteries and cleaning optical ports, these units must be returned to Noyes Fiber Systems or authorized agents for repair.

#### **General Description**

The MT Tracer Source and MT Tracer Display are combined in a kit to make multi-fiber testing easier.

The MT Tracer Source is a compact multi-fiber visual fault identifier designed to test 8 and 12-fiber cables with MTP® connectors.

The MT Tracer Source offers two modes of operation, continuous wave (CW) and 2Hz modulation, for testing fibers individually or all at once.

The MT Tracer Display is a passive optical device designed to receive the light from the MT Tracer Source and provide an eye-safe method of viewing the red light.

## **Operating Instructions**

- 1 Connect the 12-fiber (8-fiber) cable directly to the MT Tracer Source and MT Tracer Display.
- 2 Press and hold (≈ 2 sec.) the 2Hz button to power on the MT Tracer Source. The AUTO LED will illuminate to indicate that the instrument is on.
- 3 By default, the MT Tracer Source operates in AUTO mode, fiber LEDs cycle from 1 to 12. This mode provides testing of all fibers in a cable.
- 4 To test individual fibers, press the button to select the desired fiber.
- 5 The corresponding illumination on the MT Tracer Display will indicate fibers condition: ON - good connection, DIM - long or damaged fiber, OFF - fiber is misrouted or broken.
- 6 To toggle between CW and 2 Hz modes, press the 2Hz button momentarily. The 2Hz LED will indicate the selected mode: On - 2 Hz mode, OFF - CW mode.
- 7 Press and hold (≈ 2 sec.) the 2Hz button to power off the MT Tracer Source.

#### **Battery**

The 2 Hz LED on the MT Tracer Source will blink to indicate a low power state.

To replace discharged batteries:

- 1 Remove the protective rubber boot from the instrument.
- 2 Remove the battery compartment cover located on the back of the instrument.
- 3 Replace the discharged batteries.
- 4 Replace battery compartment cover and rubber boot.

#### Cleaning

Optical ports should be kept clean and free from contaminates. Connectors of fiber cables to be used with the MT Tracer Kit should be cleaned prior to connection.

## MT Tracer Source Specifications

Optical Wavelength 650 ± 10nm

Output Power Level min 0.5mW, typ 1mW (at each SM 9/125

fiber at the end of MTP patchcord)

Optical Connector MTP® male SM, angled

No. of output fibers 12

Power Consumption ≤40mA @ 3V (40 hours from 2 x AA

alkaline batteries), optional AC adapter

Low Battery Indicated by 2 Hz LED blinking
Operation Environment Temperature: 0 to 40°C

Temperature: 0 to 40°C
Humidity: 85% non-condensing

Storage Environment Temperature: -30 to 50°C

Humidity: 95% non-condensing 9.9 x 3.8 x 14.3cm (3.9 x 1.5 x 5.6in)

Weight 0.29kg (0.63lb)

## MT-Tracer Display Specifications

Input Connector MTP® angled male 62.5µ fiber

NA

No. of input connectors 1 (12-fiber MTP)

Power Consumption

Dimensions

Dimensions

Operation Environment Temperature: 0 to 40°C

Humidity: 85% non-condensing

Storage Environment Temperature: -30 to 50°C

Humidity: 95% non-condensing 9.9 x 3.8 x 14.3cm (3.9 x 1.5 x 5.6in)

Weight 0.18kg (0.4lb)

## One Year Limited Warranty

All Noyes Fiber Systems products are warranted against defective material and workmanship for a period of one year from the date of shipment to the original customer. Any product found to be defective within the warranty period would be repaired or replaced by Noyes Fiber Systems. In no case will Noyes Fiber Systems liabilities exceed the original purchase price of the product.

A warranty registration card is included with the original shipment of equipment. Fill out the card and mail or fax it to Noyes Fiber Systems to ensure proper initiation of your warranty term.

#### **Exclusions**

The warranty on your equipment shall not apply to defects resulting from the following:

Unauthorized repair or modification

Misuse, negligence, or accident

## **Returning Equipment**

To return equipment, please contact Noyes Fiber Systems to obtain additional information and a Return Materials Authorization number (RMA#). To allow us to serve you more efficiently, please include a brief description specifying the reason(s) for the return of the equipment.

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