

ETFB10

Non-Contact Optical Fiber & AC Voltage Detector

1. ⚠️ WARNINGS

- Read understand and follow safety rules and operating instructions in the manual before using this tester.
- The tester's safety features may not protect the user if not used in accordance with the manufacturer's instructions.
- Check on a known live source within the rated AC voltage range of the tester before use to ensure it is in working order.
- Insulation type and thickness, distance from the voltage source, shielded wires, and other factors may effect reliable operation. Use other methods to verify live voltage, if there is any uncertainty.
- Do not use if the tester appears damaged or if it is not operating properly. If in doubt, replace the tester.
- Do not use on voltages that are higher than as marked on the tester.
- Use caution with voltages above 30 volts AC as a shock hazard may exist.
- Comply with all applicable safety codes. Use approved personal protective equipment when working near live electrical circuits-particularly with regard to arc-flash potential.
- When measuring the optical fiber signal, try to keep the tester and the optical interface in the same line, and try to be close to the optical fiber interface.
- Avoid using the meter around strong electromagnetic fields.
- Do not expose tester to extremes in temperature or high humidity.

2.International Safety Symbols

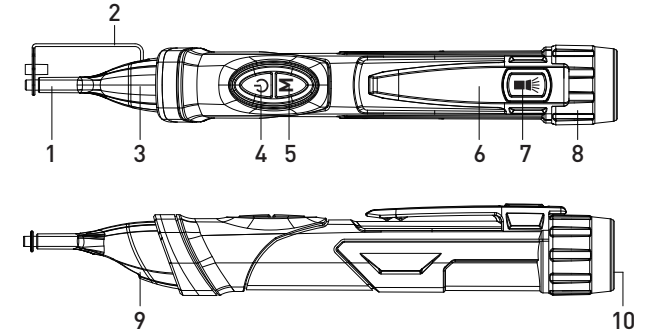
- ⚠️ Potential danger. Indicates the user must refer to the manual for important safety information.
- ⚠️ Indicates hazardous voltages may be present.
- 🛡️ Equipment is protected by double or reinforced insulation.

3.General Specifications

Detection Voltage Range	50V to 1000VAC
Frequency Range	50/60Hz
Optical fiber wavelength detection range	850~1700nm
Batteries	Two AAA 1.5V batteries
Operating Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-10 to 60°C (14 to 140°F)
Humidity	80% max
Altitude	2000 meters
Pollution Degree	2
Safety Compliance	CAT IV 1000V

4.Detector Description

- 1-Optical fiber insert and NCV induction probe
- 2-Optical fiber plug protection cover
- 3-Status indicator LEDs
- 4-Power button
- 5-Mode and flashlight button
- 6-Tester pen holder
- 7-Flashlight button
- 8-Battery rear cover cap
- 9-Worklight
- 10-Flashlight



5.Operation

5-1.Turning the Tester On

Briefly press the ON/OFF button of the tester to start the machine, and the green LED of the tester will light up quickly twice every 2 seconds, indicating that the tester is working in fiber mode and ready.

Press and hold the ON/OFF button of the tester for a long time to start the machine. The tester is in silent mode. The green LED will light up quickly twice every 2 seconds, indicating that the tester is working in fiber mode and ready.

Note: If the ON/OFF button is pressed for a long time, after the power LED is lit, the power button is still in the "long press" state, and it is judged as wrong operation after about 5 seconds. After two beeps, the tester will automatically turn off.

5-2. Turn off the tester

After the tester is turned on, press the ON/OFF button again, the tester will beep twice and turn off the test function.

5-3.Mode Select Function

When the tester is working, press the "M" key briefly each time to switch the working mode of the tester. The flashing green LED indicates that it is running in the fiber test mode, and the flashing red LED indicates that it is running in the NCV mode.

5-4.Verify Operation

Before using the tester, (1) make sure that the battery is sufficient and the tester can be turned on normally. (2) use it within the test voltage range specified by the tester.

5-5. NCV Test

- Place the tip of the tester close to the AC voltage.
- If the AC voltage detected by the tester is greater than 50V, the red LED will switch to the normally lit state, and the buzzer will make a quick sound.

If the AC voltage detected by the tester is less than 50V, the red LED will switch to the flashing state, and the buzzer will not make a sound.

Note: When the instrument is in non-silent mode, the buzzer will sound.

5-6. Optical Fiber Signal Test

- After switching the tester to the optical fiber detection mode, put the tip close to the optical fiber jack, and keep the tester and the optical fiber plug on the same horizontal line. If the optical fiber signal is not detected, the tester will flash the green LED twice every two seconds, and the buzzer will not sound. If the optical fiber signal is detected, the optical fiber indicator will switch to the normally open state, and the buzzer will also ring all the time.

Note:The buzzer will sound when the instrument is in non-silent mode.

5-7. Low battery indicator

- When the tester is turned on and the battery power is lower than 2.4V and cannot operate reliably, the tester will beep three times and the power indicator will go out, indicating that the tester is not running.
- Replace the battery to resume operation.

5-8. Auto Power Off

- To extend battery life, the tester will automatically turn off after approximately 5 minutes of inactivity.
- When the power is turned off, the tester will emit two beeps, all status indicators will go out, and the tester cannot test.

5-9. Flashlight

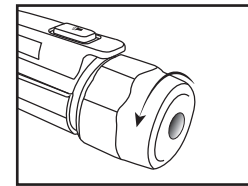
- Momentarily press the Flashlight button to turn the flashlight on or off.
- To conserve battery life, the flashlight will automatically turn off after approximately 5 minutes.
- The beeper will beep twice as the flashlight turns off.

5-10. Worklight

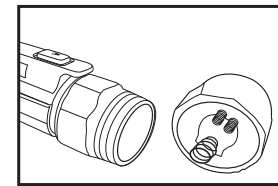
- Press and hold the M Button about two seconds , the tester will turn off or turn on the worklight.
- The status of the worklight can only be changed by long press of the M Button.
- To prolong the battery life, the worklight will automatically turn off after about 5 minutes when no signal is detected.
- If the "M" key is not released within 5 seconds after turning on the flashlight, the tester will judge it as wrong operation and turn off the worklight .

6.Changing Batteries

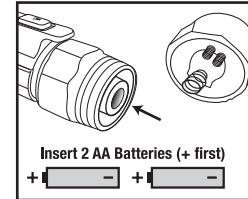
- 1.Carefully unscrew battery cap at the rear(flashlight end)of the tester.
- 2.Replace batteries with two AAA 1.5V batteries.Observe polarity.
- 3.Carefully align cover with tester as shown below.
- 4.Screw cover onto tester until it feels tight,Do not use excessive force.
- 5.Verify operation by using the tester on a known live AC voltage within the defined detection range of the tester.



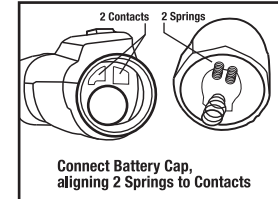
End of the Tester



Cap with springs to align



Observe correct polarity when installing batteries.



Push IN and Rotate Cap back onto Tester Body

NOTE: When batteries are loaded for the first time, please remove the white, rectangular security strip before installing batteries.

NOTE:When replacing the battery, be sure to tighten the battery cover.