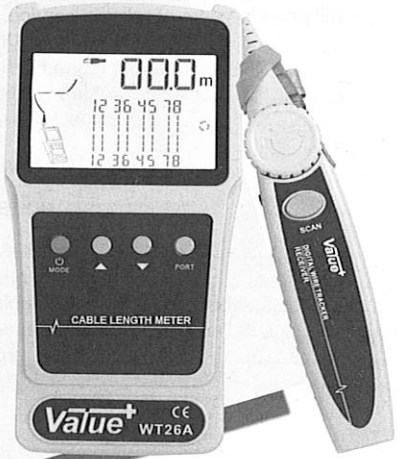
Value+



WT26
Series
Manual

FMWT26AFg-002-17-04S

The Value+ Model WT26A, WT26B and WT26C Cable Length Meter (the meter) is for:

- measuring the length of cables including network cables, phone lines and BNC cables;
- tracing cables (by digital or analogue signals);
- testing cables.

The meter also designed for using on PoE-capable devices to help to minimize the workload of users.

With careful use, the meter will provide years of reliable service.

TABLE OF CONTENT

READ BEFORE USE – SAFETY INFORMATION

⚠ WARNING

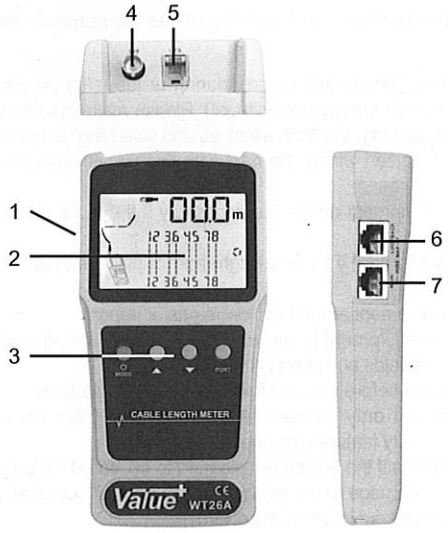
To ensure safety operation and service of the equipment, please follow these guidelines:

- Do not use the equipment just before, during or just after an electrical storm (electrical shock / high energy overvoltage!). Please make sure that your hands, your shoes, your clothing, the floor, switches and switching components are dry.
- Trace only unenergized wiring. Contact with live circuits can result in severe injury or death.
- Do not use the equipment and/or the accessory if they look damaged and / or wet.
- Never use the equipment if it just brought from a place with great temperature difference.
- Do not use the equipment around explosive gas or vapor.
- Avoid to use the equipment in the environment with strong magnetic fields, strong electrostatic fields and strong RF fields.
- Read the instruction before use and follow all safety instructions.
- Use the equipment only as specified in the instruction card; otherwise, the equipment's safety features may not protect you.
- Remove the batteries if the equipment planned to be stored for long period.
- Personal injury or damage to the equipment can occur if you attempt to make a measurement with a lead in an incorrect terminal.

- A "⚠ **Warning**" statement identifies hazardous conditions and actions that could cause bodily harm or death.
- A "⚠ **Caution**" statement identifies conditions and actions that could damage the equipment or the object under test.

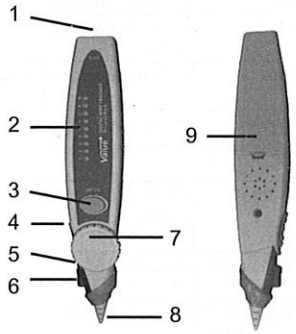
THE EQUIPMENT

MAIN BODY



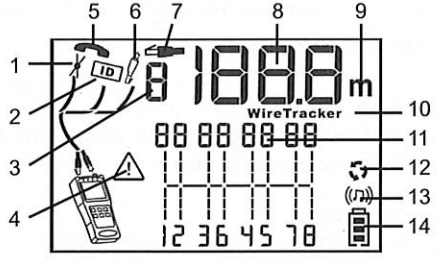
1) USB charging jack
2) LCD display
3) Push buttons
4) BNC cable jack
5) RJ11 cable jack
6) Loopback RJ45 cable jack
7) Main cable RJ45 jack

RECEIVER



1) RJ45 Connector
2) Indicators
3) Cable Tracing Button
4) Flashlight Switch
5) Scan Ready Indicator
6) Flashlight
7) Volume Adjusting Wheel
8) Tracing Probe
9) Battery Door

LCD DISPLAY



1) Short Circuit Indicator
2) Cable Testing Indicator
3) No. of Pairs Indicator
4) Warning Symbol
5) Ready for Phone Line
6) Ready for BNC Cable
7) Ready for Network Cable
8) Primary Display
9) Unit of the Primary Display (Meter)
10) Ready for Wire Tracking
11) Secondary Display
12) Ready for Measuring Length or Cable Testing
13) Receiver Sound On Indicator
14) Battery Indicator

PUSH BUTTONS

Button	Mode	Function	Access
⏻ MODE	Power off	Switch on the meter	Press to switch on the meter
	Any	Switch off the meter	Hold down about 3 seconds to switch on and off
	Any	Switch between cable length measurement, cable tracing and cable testing	Press once to switch to next functions
▲▼	Cable Length Measurement	Switch to check different pair of wires	Press either button to switch
▲	Cable Tracing	Switch between digital and analogue	Press to switch
PORT	Cable Length and Cable Tracing	Switch to select network cable, phone line and BNC cable	Press to switch

OPERATING THE EQUIPMENT

A. CABLE LENGTH MEASUREMENT

Switch on the main body by pressing the ⏻ button. The Main Body will be ready for measuring the cable length.

To check the network cable:

1) The main body will be ready for measuring network cable length when it is switch on;
2) Check if  appears, go to point 3. Otherwise, press "**PORT**" button until appears and go to point 3;
3) Unplug all cables which is connected to the main body;
4) Plug the testing network cable to the **LOOPBACK** plug;
5) The cable length will be automatically display;
6) After measuring, switch off the main body by holding down the ⏻ button for about 3 seconds.

Note:

- ** and will be displayed if the measuring cable is short circuit. In the meantime, the meter will also display the pair of wires which is short at the secondary display.**

To check the phone line:

1) Unplug all the cables connected to the main body;
2) Select the phone line mode by pressing the "**PORT**" button until the  appears;
3) Plug the phone line need to be tested to the **RJ11** jack at the top of the main body;
4) The cable length will be automatically display;
5) After measuring, switch off the main body by holding down the ⏻ button for about 3 seconds.

Note:

- ** and will be displayed if the measuring cable is short circuit. In the meantime, the meter will also display the pair of wires which is short at the secondary display.**

To check the BNC cable:

1) Unplug all the cables connected to the main body;
2) Press "**PORT**" button to select the BNC cable measuring mode. When it is ready for BNC cable measuring, the  appears;
3) Plug the testing cable to be measured to the **BNC** jack at the top of the main body;
4) The cable length will be automatically display;
5) After measuring, switch off the main body by holding down the ⏻ button for about 3 seconds.

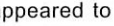
Note:

- **  and  will be displayed if the measuring cable is short circuit. In the meantime, the meter will also display the pair of wires which is short at the secondary display.**

B. TRACING CABLES

Switch on the main body by pressing the ⏻ button. Press the "**MODE**" button again to select the cable tracing function. "**WireTracker**" will be appeared when the meter is ready for tracing cables.

Network cable tracing:

1) The main body is ready for tracing the network cable by analogue signal and both  and "**-1-**" will be appeared to indicate the Main Body is ready for this function;
2) Plug the network cable to be traced in the **MAIN** jack;
3) For WT26A/B, if needed, user is allowed to select another analogue signal by pressing ▲ or ▼;
4) For WT26C, if needed, user is allowed to select:
   a) digital signal by press ▲▼ to select. When the equipment is ready for sending digital signal, the display will show "**-2-**"; or
   b) another analogue signal by press ▲▼ to select. When the equipment is ready for sending the second analogue signal, the display will show "**-3-**";
5) For WT26A/B, hold down the "**SCAN**" button on the receiver to trace cable;
6) For WT26C, press the "**SCAN**" button to select digital and analogue signal;
   a) Blue indicator will switch on when the receiver is ready for receiving digital signal with sound indication;
   b) Blue indicator flashing when the receiver is ready for receiving digital signal with vibrating indication; or
   c) Red indicator will witch when the receiver is ready for receiving analogue signal with sound indication;
7) Move the receiver close to each of the unknown cables. When the receiver is closed to the cable which is plug in the Main Body at the other side,
   a) For WT26A/B, largest sound will be heard;
   b) For WT26C,
      i. largest sound will be heard if blue or red indicator on the receiver is on; or
      ii. largest vibration will be obtained if blue indicator on the receiver is flashing.

8) After tracing, switch off the Main Body by holding down the ⏻ button for 3 seconds;
9) The receiver for WT26A/B will be automatically switch off when the "**SCAN**" button is released;
10) Also switch off the receiver by holding down the "**SCAN**" button for 3 seconds.

Phone Line tracing:

1) Select the phone line tracing mode by pressing the "**PORT**" button until  appears;
2) Plug the phone line need to be traced in the **RJ11** jack on the main body;
3) For WT26A/B, if needed, user is allowed to select another analogue signal by pressing ▲ or ▼
4) For WT26C, if needed, user is allowed to select:
   a) digital signal by press ▲▼ to select. When the equipment is ready for sending digital signal, the display will show "**-2-**"; or
   b) another analogue signal by press ▲▼ to select. When the equipment is ready for sending the second analogue signal, the display will show "**-3-**";
5) For WT26A/B, hold down the "**SCAN**" button on the receiver to trace cable;
6) For WT26C, press the "**SCAN**" button to select digital and analogue signal;
   a) Blue indicator will switch on when the receiver is ready for receiving digital signal with sound indication;
   b) Blue indicator flashing when the receiver is ready for receiving digital signal with vibrating indication; or
   c) Red indicator will witch when the receiver is ready for receiving analogue signal with sound indication;
7) Move the receiver close to each of the unknown cables. When the receiver is closed to the cable which is plug in the Main Body at the other side,
   a) For WT26A/B, largest sound will be heard;
   b) For WT26C,
      i. largest sound will be heard if blue or red indicator on the receiver is on; or
      ii. largest vibration will be obtained if blue indicator on the receiver is flashing.

8) After tracing, switch off the Main Body by holding down the ⏻ button for 3 seconds;
9) The receiver for WT26A/B will be automatically switch off when the "**SCAN**" button is released;
10) Also switch off the receiver by holding down the "**SCAN**" button for 3 seconds.

BNC cable tracing:

1) Select the BNC cable tracing mode by press the "**PORT**" button until appears;
2) Plug the BNC cable in the **BNC** cable jack;
3) For WT26A/B, if needed, user is allowed to select another analogue signal by pressing ▲ or ▼
4) For WT26C, if needed, user is allowed to select:
   a) digital signal by press ▲▼ to select. When the equipment is ready for sending digital signal, the display will show "**-2-**"; or
   b) another analogue signal by press ▲▼ to select. When the equipment is ready for sending the second analogue signal, the display will show "**-3-**";
5) For WT26A/B, hold down the "**SCAN**" button on the receiver to trace cable;
6) For WT26C, press the "**SCAN**" button to select digital and analogue signal;
   a) Blue indicator will switch on when the receiver is ready for receiving digital signal with sound indication;
   b) Blue indicator flashing when the receiver is ready for receiving digital signal with vibrating indication; or
   c) Red indicator will witch when the receiver is ready for receiving analogue signal with sound indication;
7) Move the receiver close to each of the unknown cables. When the receiver is closed to the cable which is plug in the Main Body at the other side,
   a) For WT26A/B, largest sound will be heard;
   b) For WT26C,
      i. largest sound will be heard if blue or red indicator on the receiver is on; or
      ii. largest vibration will be obtained if blue indicator on the receiver is flashing.

8) After tracing, switch off the Main Body by holding down the ⏻ button for 3 seconds;
9) The receiver for WT26A/B will be automatically switch off when the "**SCAN**" button is released;
10) Also switch off the receiver by holding down the "**SCAN**" button for 3 seconds.

C. Testing Cables

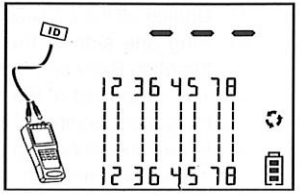
Switch on the main body by pressing the ⏻ button. Press the ⏻ button again to select the Cable Testing function. When the Main Body is ready for Cable Testing, - - - and ID appears on the primary display.

Users are allowed to perform test by either connect both side of the testing cable to **MAIN** and **LOOPBACK** jack; or connect one side to **LOOPBACK** and the other side to the **RJ45** jack on the receiver.

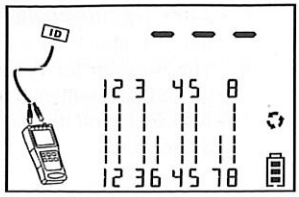
For connecting to **MAIN** and **LOOPBACK**,

1) Unplug all the cable(s) connected;
2) Plug the testing cable to the **MAIN** and **LOOPBACK** jacks;
3) The cable connection status will be display on the secondary display.

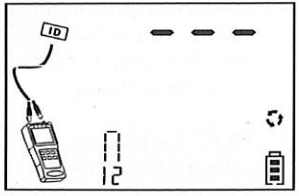
4) The display will be shown as right, if the connection is correct.



5) If any cable is opened, the corresponding number at the upper part will not appear. For example, if the display show as right, it means that line 6 and line 7 are opened.



6) If any set(s) of wire are short, only the shorted pair of wires will be shown. For example, if the display is shown as right, it means that line 1 and 2 are short.



7) If more than one pair of wires are shorted, the meter will the shorted pair one by one.
8) After testing, switch off the Main Body by holding down the ⏻ button for 3 seconds.

For connecting to the **LOOPBACK** and the **RJ45** jack on the receiver,

1) Unplug all the cable(s) connected to the main body and receiver;
2) Plug one side of the testing cable to the **LOOPBACK** jack on the Main Body and the other side to the **RJ45** on the receiver;
3) The upper part of the secondary display will move from 1 to 8, and the corresponding LED on the receiver will also be switched on;
4) If the connection is correct, the number showing on the Main Body will be matched with the LED on the receiver;
5) Otherwise, the connection is incorrect.
6) After tracing, switch off the Main Body by holding down the ⏻ button for 3 seconds;
7) There is no need to switch off the receiver.

AUTO POWER OFF

The equipment will automatically switch off if there is no function or button press for 30 minutes.

SPECIFICATIONS

Temperature	Operating: 0°C ~ 40°C Storage: -10°C ~ 50°C
Relative Humidity	<90%
Battery	Main Body: 1 x 3.7V 14500 Lithium (Charging at DC 5V) Receiver: 9V (6F22)
Size	Main Body: 173 x 87 x 37mm Receiver: 35 x 187 x 29mm
Weight	Main Body: 680g (include battery) Receiver: 102g (include battery)

		WT26A	WT26B	WT26C
Basic Functions				
Cable Length Measurement				
2~100m	Resolution		0.1m	
	Accuracy	±(3%+30)	±(3%+30)	±(3%+30)
101~200m	Resolution	N/A	1m	
	Accuracy	N/A	±(3%+30)	±(3%+30)
201~300m	Resolution	N/A	1m	
	Accuracy	N/A	±(3%+3)	±(3%+3)
Intelligent Wiremap				
Shorts		✓	✓	✓
Split pairs		✓	✓	✓
Length of Network Cable		✓	✓	✓
Length of Phone Cable		✓	✓	✓
Length of TV Cable		✓	✓	✓
Analogue Cable Tracing		✓	✓	✓
Digital Cable Tracing				✓
Special Features				
Max display		999	999	999
Display backlight		✓	✓	✓
Low power indication		✓	✓	✓
Auto power off		✓	✓	✓

MAINTENANCE

CHARGING

⚠ **Caution**

Users are allowed to charge the batteries in the Main Body only. To protect the user and the equipment, remove all connections during charging.

Please charge the main body if the battery indicator is flashing. To charge the Main Body, connect the transformer provided to the charger jack and AC wall outlet.

CHANGING BATTERY FOR MAIN BODY

⚠ **Warning**

To avoid shock, injury, or damage to the equipment, remove all the connections from the device before opening the battery doors.

If charging to the main body is not effective, the rechargable batteries inside come to the end of life. The batteries are needed to be replaced.

To replace the batteries, switch off the main body. Open the equipment by removing the screws at the back of the equipment. Replace the battery pack inside.

⚠ **Caution**

It is recommended to purchase the battery pack from our representative. Using battery pack from other sources may damage the equipment and warranty will be void immediately.

Changing Battery for Receiver

Replace the battery for the receiver if the power indicator cannot be switched on when "**SCAN**" button is holding down for more than 3 seconds.

Open the battery door and replace the 9V battery inside, as shown in the photo at the right.

Cleaning

⚠ Caution

To avoid damaging the equipment, NEVER submerge them in water. DO NOT use abrasive cleaners, they will damage the case.

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Dirt or moisture in the jacks can affect the measurement.

WT26 Series Manual
Version 2.0