

## KT201 NETWORK CABLE TESTER

KT201 network cable tester is a powerful assistant for the computer network system wiring and maintenance. It can determine the cable's pair, length, and test the point-to-point relationship between local and remote terminals.

### TECHNOLOGICAL CHARACTERISTIC

\*Length test range: 1.5-300M

Accuracy:  $\pm 5\% \text{rdg} \pm 1\text{M}$

Resolution: 0.1M

\*Display: 16 characters in 2 lines

\*Pair validation: Displays the pair number and wire number.

Cat 5 cable: 1.5-300M

Display the pair's number and wire number

\*Point-to-point continuity of RJ45 cable

Local test: insert into both M and S socket, displays the two terminals relationship of the cable point by point.

Remote test: one terminal of the cable connect to the Main Unit, the other to the

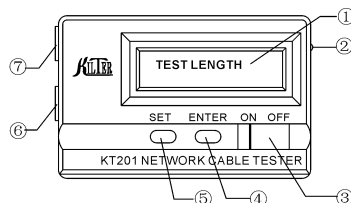
Remote Unit, displays the relationship of the Local and Remote terminals point by point.

\*Power supply: 4 AAA size batteries

\*Power consumption: 20mA

\*Size: 11.8 X 7.6 X 3 cm

### ※ Name of Each Part



① LCD: two lines 16 characters Liquid Crystal Display.

② LED.

③ Power switch.

④ ENTER button

⑤ SET button

⑥ "S" socket.

⑦ "M" socket.

## OPERATE INSTRUCTION

### 1. Battery Installation

Slide the battery cover away from the tester and put 4 AAA size batteries and reinstall the cover.

### 2. Functions and Measurement

You can select the following three functions with SET button:

(1) If you want to test twisted cable length, press "SET" button until display: **TEST LENGTH**

(2) If you want to test twisted cable pair, press "SET" button until display: **TEST PAIR**

(3) If you want to test twisted cable, press "SET" button until display: **RJ45 CABLE TEST** press "ENTER" button to execute the test function.

The tester has two sockets marked with "M" and "S" on the left, "M" socket is used to determine the cat 5 twisted cable's length, pair and the point-to-point relationship between local and remote twisted cables. "S" Socket is used to test the point-to-point relationship of local twisted cable.

A remote adapter is used to test the remote

cable's point-to-point relationship.

### 3. CAT-5 TWISTED CABLE LENGTH TEST

Press SET key to display: **TEST LENGTH**

Insert one terminal of the twisted cable into "M" socket, press "ENTER" key to execute.

The tester tests all the four pairs of the twisted cable separately, and it would display their length. If there are more than two pairs for testing, it will display two page. When the arrow at the lower right side of LCD flash, it means that there is still one more page to display.

Press "ENTER" to display the next page.

Form of display:

1-2	21.5M
3-6	21.8M

Of this form, the front is the pair number and followed is the length of it.

If there are only two wires, it will regard as one pair, if the two wires doesn't belong to the same pair, there will make a large error in test result.

If there is no cable inserted, it would display:

**TEST LENGTH**  
**OPEN OR NO ADAPTER**

If there is some short inside the cable, it would display:

```
SHORT
XX XX XX XX XX
```

Here, XX is the numbers of the shorted wires and the Max. display group isn't more than 5.

#### 4. TWISTED CABLE PAIR TEST

Press "SET" button to display:

```
TEST PAIR
```

Insert the twisted cable into "M" socket, then press "ENTER".

The LCD will display as:

```
TEST PAIR
1-2 3-6 4-5 7-8
```

The last line is the pair number and wire number.

If there is no cable or pair inserted, it would display:

```
TEST PAIR
OPEN OR NO PAIR
```

If you want to test cable's pair, you should insert at least 3 wires.

If there is some short inside the cable, it would display:

```
SHORT
XX XX XX XX XX
```

Here, XX is the shorted cable number, and the Max. displayed group isn't more than 5.

#### 5. RJ45 TWISTED CABLE TEST

This function is used to test the point-to-point relationship of the local or remote terminal of the RJ45 cable which is made according to some standard. Tester will automatically exchange the local test or remote test.

**5.1 LOCAL TEST:** insert two terminals of the cable into "M" socket and "S" socket separately, press the button "SET" to display:

```
RJ45 CABLE TEST
```

Press "ENTER" to execute, if there is no cable inserted, it would display:

```
OPEN
OR NO ADAPTER
```

If short circuit occurs, it would display:

```
SHORT
XX XX XX XX XX
```

Here, XX is the shorted wires' number, the Max. displayed group isn't more than 5.

If there is no any short, it would display:

```
LOCAL M: 1 2 3 4 5 6 7 8
S: 3 6 1 4 5 2 7 8
```

"M" Line is the port numbers of M

"S" Line is the port numbers of S.

The test can't display the number of open wires.

#### 5.2 REMOTE TEST:

To test the point-to-point relationship of RJ45 cable remotely, first you have to use "TEST LENGTH" function to confirm that four pairs of the twisted cable are all connected well, then you can measure the point-to-point relationship of eight wires correctly.

Press "SET" button to execute:

```
RJ45 CABLE TEST
```

Insert one terminal of the cable into "M" socket and then, insert another terminal into the remote adapter socket. Then the remote adapter beeps, it means that the ports for test is connected well, at the same time LED on the right side will light. If the remote adapter is disconnected from the remote ports, the LED will not light.

Press "ENTER", if there is no cable inserted in or remote adapter is not used, it would display:

```
OPEN
OR NO ADAPTER
```

When all connections are all right, it will display:

```
REMOT: 1 2 3 4 5 6 7 8
LOCAL: 3 6 1 4 5 2 7 8
```

Line REMOT is the pin number of remote RJ45. Line LOCAL is the pin number of local port M.

Press "ENTER" to return to measurement, it will display:

```
RJ45 CABLE TEST
```

Now you can be ready for the next test.

#### \*ATTENTION

When test with function 1. **TEST LENGTH** or function 2. **TEST PAIR**, just one terminal of the cable must be connected to ports "M", only when measure with function

3. **RJ45 CABLE TEST** Another terminal have to be connected to "S" ports or the remote unit.