



# HT QuickLan6055 Mobile Device for Cable Test User Manual

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**HT QuickLan6055 Mobile Device for Cable Test**



## SAFETY PRECAUTIONS AND PROCEDURES

### CAUTION

For your own safety as well as that of the apparatus you are recommended to follow the procedures described in this instruction manual and carefully read all the notes preceded by the symbol . No compliance with the CAUTIONS and/or Instructions may damage the apparatus and/or its components or injure the operator.

### PRELIMINARY INSTRUCTION

- Read this instruction manual and the instrument's one before starting use.
- Any instruction preceded by the caution symbol must be observed in order to avoid accidents or damages.
- Check that battery has been correctly placed.
- Only qualified personnel practicing applicable safety precautions must use this product.
- Do not perform any measurement under conditions beyond the limits specified in this manual.

### CAUTION

Connect the tester only to inactive cables. Connection to active telephone lines and networks may damage the instrument.

### DURING USE

Read carefully the following recommendations and instructions:

### CAUTION

If the display shows the symbol “ ” interrupt testing and replace batteries. Never replace batteries while the instrument is connected to conductors.

- Do not use the instrument if damaged.
- Do not use the instrument outdoor.
- Do not perform measurements under environmental conditions beyond the limits specified in § 7.3.1.
- Do not expose the instrument to water splashes.

## **AFTER USE**

- After using the instrument switch it off.
- Remove batteries if you expect not to use the instrument again for a long period.

## **GENERAL DESCRIPTION**

The instrument allows the followed functions:

- Wire mapping test on LAN cables with RJ45 connector
- Test on UTP and STP cables
- Up to 6 error conditions identified
- Recognition of up to 8 remote units
- Pass/Fail indications
- Backlight
- Auto Power OFF

## **PREPARATION FOR USE**

### **INITIAL CHECKS**

This instrument was checked both mechanically and electrically prior to shipment. All possible cares and precautions were taken to let you receive the instrument in perfect conditions. Notwithstanding we suggest you to check it rapidly (eventual damages may have occurred during transport). Make sure that all standard accessories mentioned in § 7.4.1 are included. Should you have to return back the instrument for any reason please follow the instructions mentioned in § 8.

### **POWER SUPPLY**

The instrument is battery supplied with 1x9V alkaline battery type IEC 6F22 included in the package. When the “ ” low battery indication symbol is displayed replace it immediately, following the instructions given in § 6.2. Don't replace the battery while the instrument is connected to the plant.

### **STORAGE**

After a period of storage in extreme environmental conditions exceeding the limits mentioned in § 7.3 let the instrument return to normal measuring conditions before using it.

## **NOMENCLATURE**

## **INSTRUMENT DESCRIPTION**

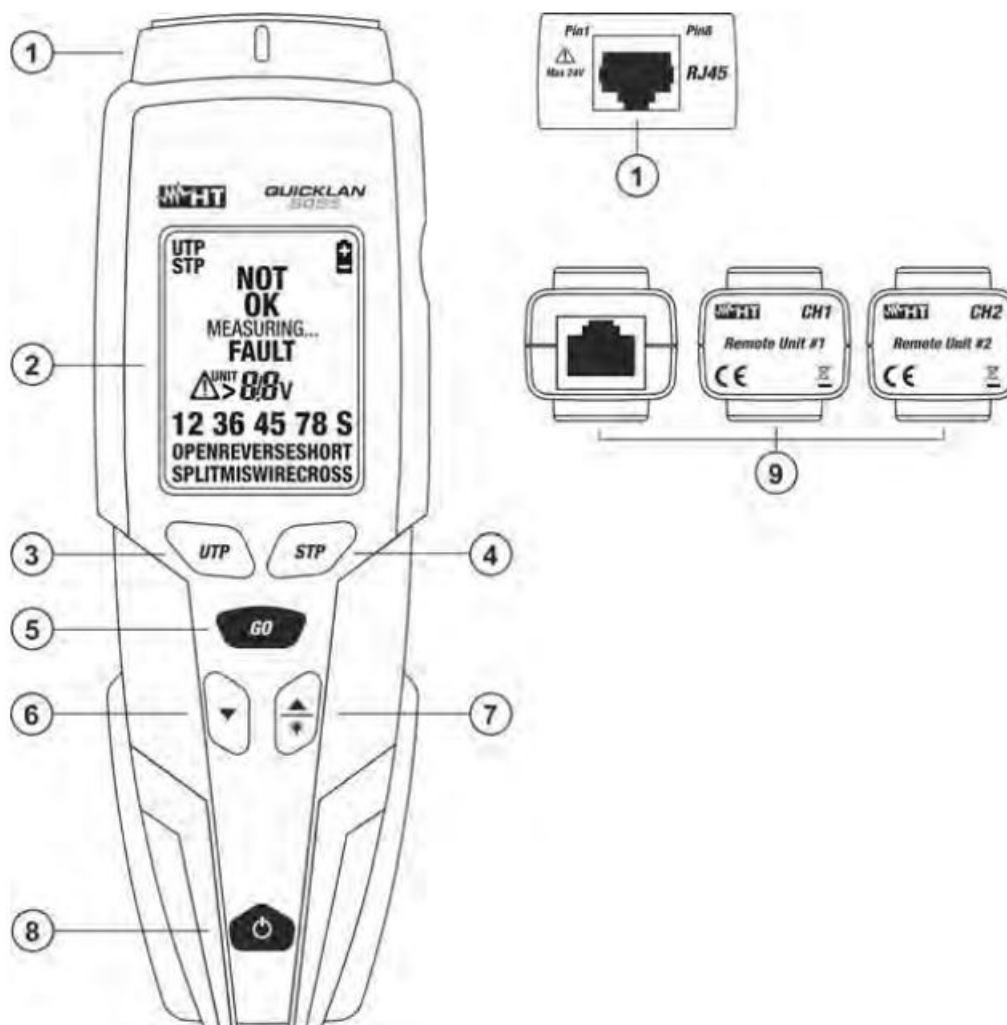


Fig. 1: Instrument description

1. RJ45 input terminal
2. LCD display
3. UTP key
4. STP key
5. GO key
6. key
7. key
8. ON/OFF key
9. Remote units #1 ~ #2

## DISPLAY DESCRIPTION

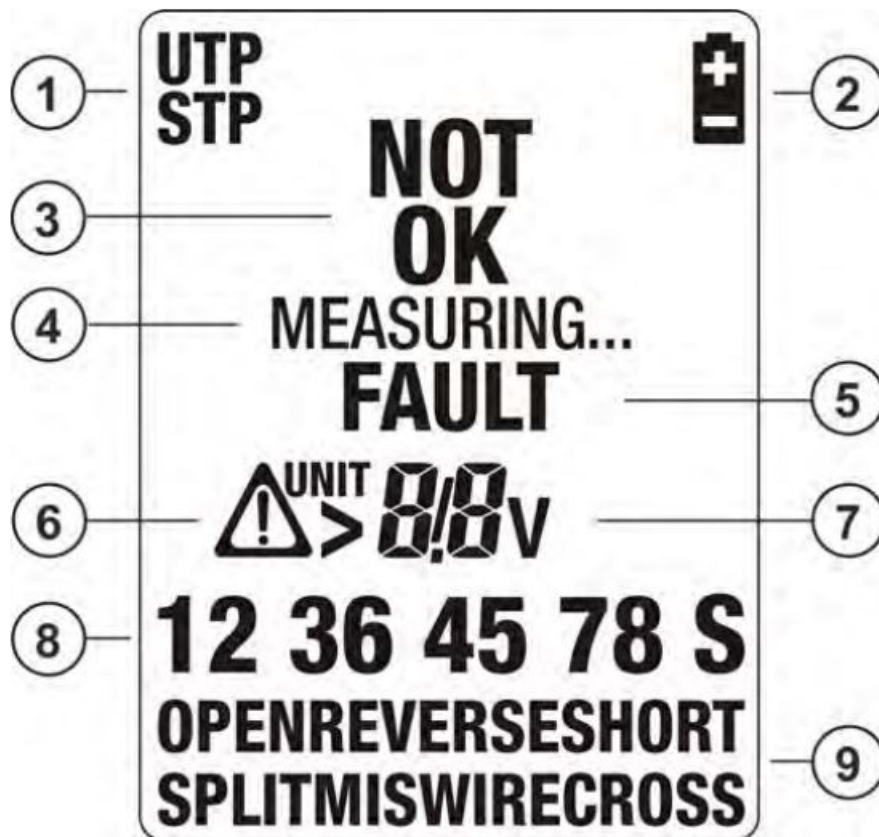


Fig. 2: Display description

1. Type of selected cable
2. Low battery indication
3. Final test outcome
4. Running test indication
5. Fault test indication
6. Caution and remote unit number indications
7. Error numbers and input voltage indications
8. RJ45 cable couples and S shield indications
9. Error type indications

## FUNCTION KEY DESCRIPTION

### ON/OFF key

By pushing ON/OFF key permits to turn on the instrument. For an instant all display segments light up, then the firmware release appears on the top right side. When "on" is displayed the instrument is ready to start (see Fig. 3)



**Fig. 3: Initial screen of instrument**

Fig. 3: Initial screen of instrument

By pushing long (>1s) ON/OFF key to switch off the instrument

#### **UTP and STP keys**

By pressing UTP or STP keys it's possible to select the type of cable to be tested, with the following difference: STP performs also tests on the shield (continuity and proper connections) while UTP doesn't. Consequently STP must be pressed for all shielded cables such as: FTP (Foiled Twisted Pair cable), STP (Shielded Twisted Pair cable), SSTP (Shielded/Shielded Twisted Pair cable) and SFTP (Shielded/Foiled Twisted Pair cable)

#### **CAUTION**

By default the selected cable is STP. Any time the instrument is turned off and on such type of cable is automatically selected\

#### **GO key**

By pushing GO key to activate the wire mapping test of LAN cable connected between the instrument's input and the remote unit used (see § 5.1).

#### **keys**

By pushing or keys for the selection of the errors detected by the instrument at the end of wire mapping test on cable (see § 5.2). By pushing long (>2s) of UNIT/ key permits to activate/disable the backlight

#### **Auto Power OFF feature**

The instrument is provided with Auto Power OFF (APO) feature which automatically permits to switch it off after approx..4 minutes of idleness in order to preserve the internal battery.

### **OPERATING INSTRUCTIONS**

#### **CABLING TEST VERIFY**

The wire mapping of RJ45 LAN cables is tested in accordance with its defined cabling layout. To test a cable perform the below steps:

1. Switch on the instrument by pushing the ON/OFF key
2. Select the type of cable UTP or STP under test (see § 4.3.2).
3. Connect the cable under test to the meter and to the remote unit by using if necessary through supplied patch cables (see Fig. 4)



**Fig. 4: Instrument connection**

4. Press GO key. The message “MEASURING...” is shown and the instrument performs all tests related to the selected type of cable
5. If cabling is correct, a screen like this is displayed (OK). The identification number refers to the remote identifier connected to the other end of the cable being tested.







6. If cabling is not correct, a screen like this is displayed. Referring to this example:
  - “NOT OK” indication and caution symbol means that the test have given some errors
  - “FAULT 1/3” means that the detected errors are 3, of which the first one is currently displayed. By pressing or / keys it's possible to run over the remaining screens and display other cabling errors






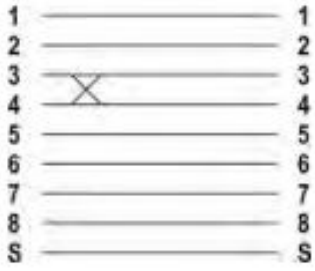


- Details on the detected error are given on the left side: e.g: the couple 1-2 is OPEN
7. If the instrument detects the presence of a voltage  $> 0.2V$  on the RJ45 input, it shows the message in the screen on the right and do not perform the test. Eliminate the cause of the presence of voltage (e.g.: coupling due to the presence of electrical cables close to cable of LAN networks). The maximum allowed voltage between inputs is 24V



## CABLING ERRORS



Cabling error	Description	Visualization	Mapping
OPEN PAIR	One or both conductors of the pair are interrupted (open)		
REVERSED PAIR	The conductors of the same pair are reversed		

SHORTED CABLES	Two conductors are in short circuit between each other	 <p>STP NOT OK FAULT 1 8 SHORT</p>	
TRANSPOSED (CROSSED) PAIRS	Two pairs are crossed	 <p>STP NOT OK FAULT 12 78 CROSS</p>	
MISWIRE	Generic cabling error, such as for example two conductors belonging to different pairs are exchanged	 <p>STP NOT OK FAULT 36 45 MISWIRE</p>	
SPLIT PAIRS	The pin to pin correspondence is hold, but physically the conductors of two pairs are crossed	 <p>STP NOT OK FAULT 36 45 SPLIT</p>	

#### SPLIT PAIRS EXPLANATION NOTE

A LAN cable contains 8 conductors, twisted two by two thus forming 4 pairs: 1-2, 3-6, 4-5, 7-8. The error "SPLIT PAIRS" consists in the exchange of two conductors belonging to different pairs. The pin to pin correspondence seems intact, but physically the conductors of two couples are split. Such interaction hardly affects (or even makes impossible) the exchange of data at high frequency/speed.

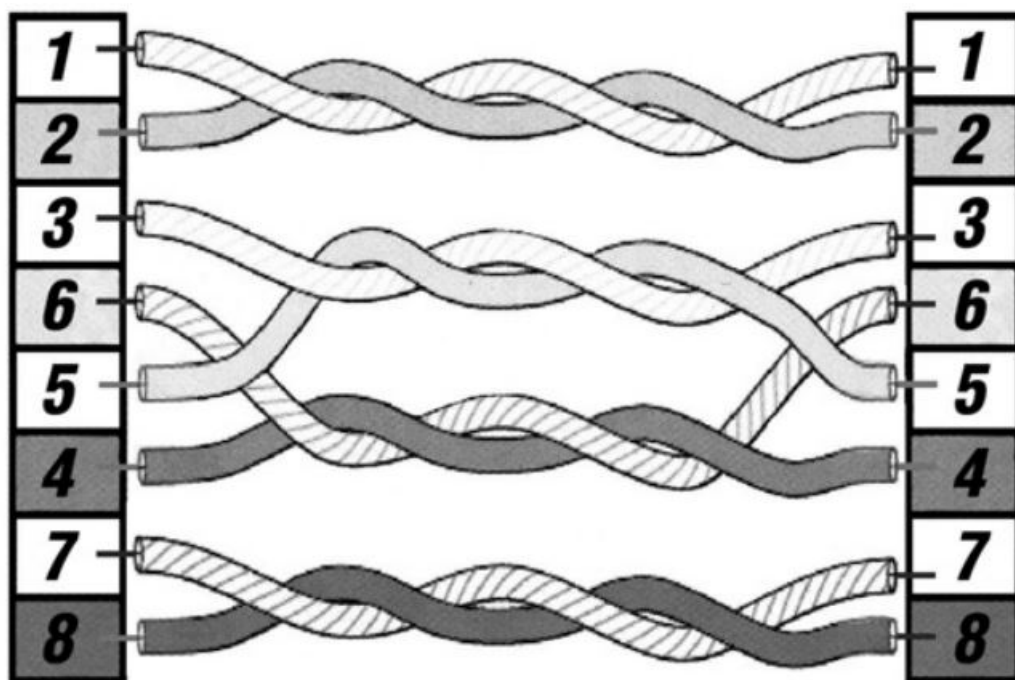


Fig. 5: Description of “Split pairs” error

## MAINTENANCE

### GENERAL INFORMATION

1. Whether in use or in storage, please do not exceed the specification requirements to avoid possible damages or dangers
2. Do not place this meter at high temperatures or humidity or expose it to direct sunlight
3. Be sure to turn off the meter after use. If you expect not to use the tester for a long time, remove the battery in order to avoid leakages of battery liquid that would damage the internal parts

### BATTERY REPLACEMENT

When “ ” appears on the display, replace the battery.

1. Switch off the instrument
2. Remove the temperature probe
3. Remove the battery cover
4. Remove the battery from the battery fastener
5. Set the new battery into battery fastener, and return it to the battery case
6. Replace the battery cover
7. Use the appropriate battery disposal methods for Your area

### CLEANING

To clean the instrument use a soft dry cloth. Never use a wet cloth, solvents or water.

### END OF LIFE

CAUTION: this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal.

# TECHNICAL SPECIFICATIONS

## Connectors

- LAN input connectors RJ45
- Cables which can be tested
- Cable type UTP, STP
- Category CAT3, 5, 5E, 6, 6A, 7
- Reference guideline: TIA/EIA 568B
- Max height of use: 2000m (6562ft)
- Length up to 200m (656ft)(1)
- (1) To perform the test "SPLIT PAIR" the cable must be at least 1m (3.3ft) long

## • GENERAL SPECIFICATIONS

- Mechanical features
- Dimensions (L x W x H): 190 x 65 x 45mm (7 x 3 x 2in)
- Weight (with battery): 235g (8 ounces)
- Dimensions rem.units (L x W x H): 30 x 25 x 27mm (1 x 1 x 1in)
- Weight remote units: 13g (0.5ounces)
- Mechanical protection: IP40
- Power supply
- Battery type 1x9V type IEC 6F22
- Battery life ca 600h (backlight OFF), ca 16h (backlight ON)
- Auto Power OFF; after 4 minutes of idleness (not disabled)

## • ENVIRONMENT

### • Environmental conditions

- Working temperature 0°C ÷ 40 °C (32°F ÷ 104°F)
- Relative humidity <80%RH
- Storage temperature 0°C ÷ 40°C; (32°F ÷ 104°F)
- Storage humidity <80%RH

## • ACCESSORIES

### • Standard accessories

- Remote unit #1 CH1
- Remote unit #2 CH2
- Patch cables RJ45/RJ45, STP, 20cm, 3 pcs YAAMS0000000
- Battery
- Carrying bag
- User manual

### • Optional accessories

- Remote unit #3 and cable RJ45/RJ45 STP REM3
- Remote unit #4 and cable RJ45/RJ45 STP REM4
- Remote unit #5 and cable RJ45/RJ45 STP REM5
- Remote unit #6 and cable RJ45/RJ45 STP REM6
- Remote unit #7 and cable RJ45/RJ45 STP REM7
- Remote unit #8 and cable RJ45/RJ45 STP REM8

- Remote units #3 – #8 + 6 cables RJ45/RJ45 STP REM38

SERVICE

WARRANTY CONDITIONS

This instrument is guaranteed for one year against material or production defects, in accordance with our general sales conditions. During the warranty period the manufacturer reserves the right to decide either to repair or replace the product. Should you need for any reason to return back the instrument for repair or replacement take prior agreements with the local distributor from whom you bought it. Use only original packaging. Any damage occurred in transit due to not original packaging will be charged anyhow to the customer.

The warranty doesn't apply to:



- Accessories and batteries (not covered by warranty).
- Repairs made necessary by improper use (including adaptation to particular applications not foreseen in the instructions manual) or improper combination with incompatible accessories or equipment.
- Repairs made necessary by improper shipping material causing damages in transit.
- Repairs made necessary by previous attempts for repair carried out by not skilled or unauthorized personnel.
- Instruments for whatever reason modified by the customer himself without explicit authorization of our Technical Dept.

The contents of this manual may not be reproduced in any form whatsoever without the manufacturer's authorization. Our products are patented and our logotypes registered. We reserve the right to modify specifications and prices in view of technological improvements or developments which might be necessary.

SERVICE

Shouldn't the instrument work properly, before contacting your distributor make sure that batteries are correctly installed and working, check the test leads and replace them if necessary. Should the instrument still operate improperly check that the operation procedure is correct and conforms to the instructions given in this manual. If the instrument is to be returned to the after-sales service or to a dealer transportation costs are on the customer's behalf. Shipment shall be however agreed upon. A report must always be enclosed to a rejected product stating the reasons of its return. To ship the instrument use only the original packaging material; any damage that may be due to no-original packing shall be charged to the customer.

Documents / Resources

<div>ENGLISH</div> <div>User manual</div> <div></div>	<div><a href="#">HT QuickLan6055 Mobile Device for Cable Test</a> [pdf] User Manual</div> <div>QuickLan6055, Mobile Device for Cable Test, QuickLan6055 Mobile Device for Cable Test</div>
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