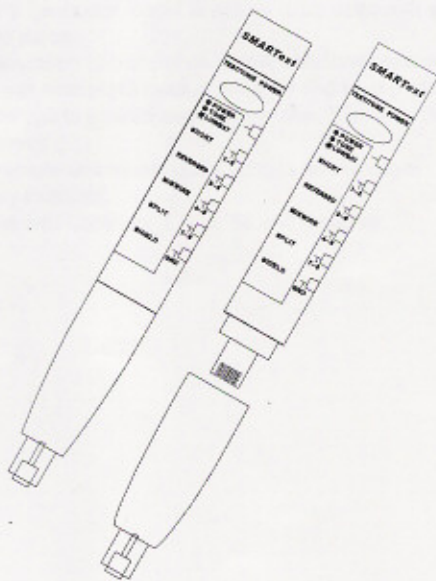


SMARTest

User Manual



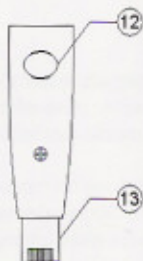
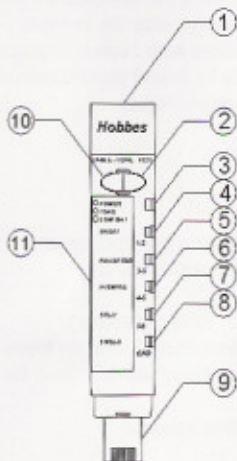
INTRODUCTION

SMARTest is the most unique, intelligent "Pen Style" pocket size cable tester in the market today for installers, maintenance professionals and students to troubleshoot network cable. Its compact size fits in most pockets or tool pouches. SMARTest is compatible with cables in major standard categories in the industry, and is able to detect most common wiring problems on commercial or residential applications.

FEATURES

1. The first "Pen Style" compact tester today.
2. Detect open, short, reverse, miss-wire and even the split pairs.
3. Built-in tone generator model available to be used with any compatible probe.
4. 1 button operation (2 buttons on model with tone generator).
5. Interface with both RJ45 Socket (female) and Plug (male) on main and remote unit to provide easy connection. Eliminate the need for cable adaptors.
6. Snap-on remote unit allows quick access and storage.
7. Low battery indicator.
8. Compatible with Category 3, 4, 5, 5e and 6 cables.

PRODUCT PROFILE



- ① RJ-45 Jack
- ② Test Switch
- ③ Power LED (green) / Tone (red) / Low Battery (Flash red)
- ④ Pair 1 : Good (green) / Short (red)
- ⑤ Pair 2 : Good (green) / Reversed (red)
- ⑥ Pair 3 : Good (green) / Mismatch (red)
- ⑦ Pair 4 : Good (green) / Split (red)
- ⑧ Grounding Good (green)
- ⑨ RJ-45 Plug
- ⑩ Cable / Tone Select Switch
- ⑪ Battery Cover
- ⑫ Release Button
- ⑬ RJ-45 Plug

CONTENTS:

- 1 Main Unit
- 1 Remote Unit
- 1 Deluxe Carry Pouch
- 1 User manual

* 1.5V AAA Alkaline Batteries (optional)

**DO NOT USE SMARTest IN LIVE/ACTIVE NETWORK CIRCUIT
ALWAYS CHECK BATTERY CONDITION STATUS BEFORE USE**

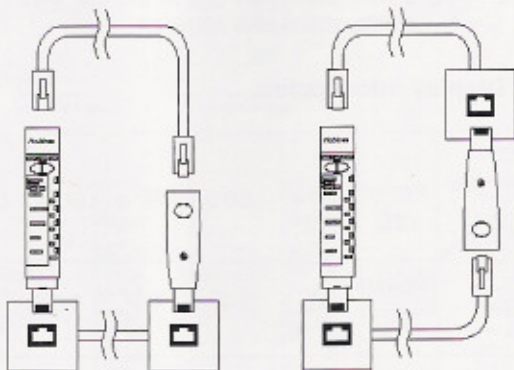
MANUAL OPERATION:

On the main unit, it uses only one "Test" button (one "Mode" and one "Test" button on model with built-in tone generator) to operate the SMARTest.

Test Button UP/DOWN	Mode	Test
Button is released/free (up)	Cable test	Test & retain fault status
Button is pressed (down)	Tone Generator	Transmit tone signal

1. Cable connections

Plug one end of the cable into the Main Unit RJ45 jack and the other end into the Remote unit. Alternatively, it might need to use the plug end connector on main and remote units for wall plate or patch panel test, or both. Different application sample illustrate below.



Application Sample

2. Cable test operation

The tester detects cable wiring problems based on TIA-568A/568B standards.

- Step 1 For model with built-in tone generator, release/free (up) the "Mode" button prior testing.
- Step 2 Press the "Test" button and the tester will perform cable pairs diagnosing automatically.
- Step 3 Reading results.

- If any LED (from LED1 to LED5) is in **solid** green, it indicates the corresponding pair is GOOD.
- If any LED (from LED1 to LED5) is **blinking** green, it indicates the corresponding pair is FAULTY.

If cable pair is faulty, red color LED will indicate whether the problem is open, short, miss wire, reverse or split (Refer to table below).

- Notes:**
1. LED1 –LED5 will all on once ,then all of, if the cable is not inserted . SMARTest will end the test cycle when it occurs.
 2. If there is an "open" fault on any pair, the corresponding LED will be off .

3. LEDs Display Information

LED Number LED Color	Power LED	LED 1	LED 2	LED 3	LED 4	LED 5
GREEN	Power On	1-2	3-6	4-5	7-8	Shield Ground
RED	Battery Low	Short	Reverse	Miss wire	Split	



Flash



Open

No Light



Red



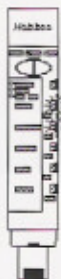
Hubbos
All Green
Cable OK



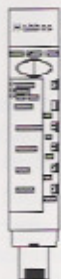
Hubbos
Others Power OK
Class Tone Mute
Flash Red! Battery Low



Hubbos
Flash Open
Pwr 1.20V 1ady



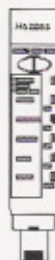
Hubbos
Flash Open
Pwr 1.57V 2 1ady



Hubbos
No Light
Vbat 1.20Vpn



Hubbos
DBO RT



Hubbos
A/D Error



Hubbos
Crossed / No cable



Hubbos
DPLT

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TONE GENERATOR

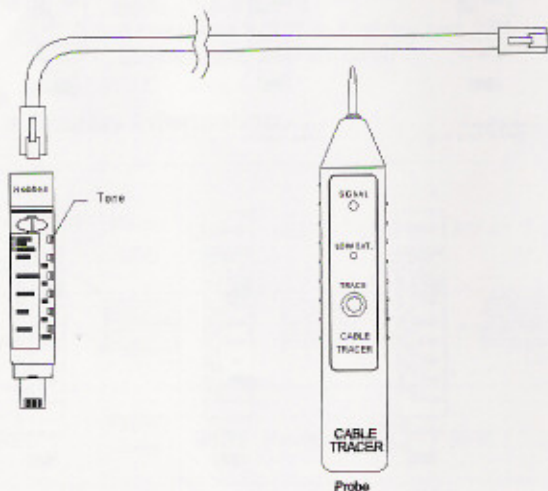
SMARTest that has 2 buttons on main unit panel ("Test" and "Mode") is equipped with a built-in tone generator model. The SMARTest tone generator sends an audio signal through the tested cable. Then the cable can be detected by any compatible probes in the market by following audio signals through the cable or at the end of the cable.

1. CABLE CONNECTION

Plug one end of cable into the main unit (Remote unit is not used in Tone generator mode.)

2. TONE OPERATION

- Step 1. Press the "Mode" button down.
- Step 2. Press "Test" button down to send out the tone signal.
- Step 3. Use a probe to pick-up rhythmical sounds and trace the cable.



SPECIFICATIONS

LEDs Indications: Power/Low Bat LED: Device is On/Off or low battery.

LED 1	:	pair 1-2
LED 2	:	pair 3-4
LED 3	:	pair 5-6
LED 4	:	pair 7-8
LED 5	:	Shield Ground

Interface: 1 x RJ45 socket (on both master and remote unit)
1 x RJ45 plug (on both master and remote unit)

Battery: 1 x 1.5V AAA Alkaline Battery
Approximately 1.5 hours of continuous use.

Working Temperature	0°C - 50°C
Storage Temperature	-3°C - 50°C
Humidity	10% - 90%
Dimensions	20 x 150 x 25 (W x L x H) Main unit: 20 x 95 x 25 (W x L x H) Remote unit: 20 x 70 x 20 (W x L x H)
Weight	Main unit: 50 gram Remote unit: 18 gram

SMARTest model number:

- 256653 without generator
- 256653T with tone generator

WARNING

1. **Caution: DO NOT CONNECT TO ACTIVE NETWORK CIRCUIT, OR IT WILL DAMAGE THE DEVICE UNIT. DAMAGE CAUSED BY INAPPROPRIATE USE OF THE DEVICE WILL NOT BE COVERED BY THE WARRANTY.**
 - Battery should be removed from the unit if the next usage is not within one month.
 - Storing the tester in the original package is recommended.
 - Do not expose the unit to extreme humidity, high temperature or direct sunlight.
 - Do not open the unit or attempt to repair it, or it will void the warranty.
 - Contact your distributor/retailer for service or warranty. SMARTest products covers 1 year Manufacture Limited Warranty with original proves of purchase.

Authorized Distributor/Retailer:

Part Number.: _____

Serial No.: _____

Date of purchase. : _____

CT-09-61