

TC-600 VDSL2 TESTER

VDSL2/DMM/TDR/OPM/VFL/CABLE TRACING

ANNEX A, ANNEX B, 35B



I. INTRODUCTION

TC-600 VDSL2 tester specially designed for xDSL line test (xDSL include: ADSL, ADSL2, ADSL2+, READSL, VDSL2 etc.) and maintenance. It provides xDSL test, PPPoE dial test, DMM test, Modem emulation, line voltage indication and so on.

TC-600 VDSL2 tester also introduces the Cable Tracing, Optical Power Meter and Visual Fault Locator function into the unit, as well as the TDR function.

It is one multifunctional tester with smart size, true color LCD and powerful management software as well as the 7200mAh rechargeable battery etc.

There are total three sub models of TC-600 series VDSL2 tester:

TC-600A can support Annex A and up to 17a(100Mbit/s);

TC-600B can support Annex B and up to 17a(100Mbit/s);

TC-600C can support up to 35B(300Mbit/s).

II. MAIN FEATURES

- Test objects: ADSL, ADSL2, ADSL2+, READSL, VDSL2
- Annex A(100Mbit/s), Annex B(100Mbit/s), 35B(300Mbit/s) can be optional.
- Fast copper tests with DMM (ACV, DCV, Loop and Insulation Resistance, Capacitance, Distance)
- Supports modem emulation and simulating login to Internet
- Supports ISP login (username / password) and IP Ping test (WAN PING Test, LAN PING Test)
- Beep and LEDs alarm indications (Lower Power, PPP, LAN, xDSL)
- Supports all multi-protocol, PPPoE
- Connects to CO via alligator clip or RJ11
- Rechargeable Li-ion battery
- Data memory function
- LCD display, Menu operation
- Auto shut off if no any operation on keyboard
- Compliant with all known DSLAMs
- Software management
- Simple, portable and money-saving

III. FUNCTIONS

- Optical Power Meter (Optional)
- Visual Fault Locator (Optional)
- TDR Cable Fault Locator (Optional)
- Cable Tracing (Optional)
- DSL physical layer test
- Modem Emulation (replace the user's modem completely)
- PPPoE Dialing (RFC1683, RFC2684, RFC2516)
- Telephone Function
- DMM Test
- Ping Function (WAN & LAN)
- Check dangerous voltage
- Data upload to computer and software management
- Setup system parameter: backlight time, shut off automatically, press tone etc.
- Revise PPPoE dial attribute, user name and password; restore factory value and so on.



IV. LAYOUT



V. SPECIFICATIONS

ADSL2+

Standards	ITU G.992.1 (G.dmt) ITU G.992.2 (G.lite) ITU G.994.1 (G.hs) ANSI T1.413 issue #2 ITU G.992.5 (ADSL2+) Annex L
Up Channel Rate	0~1.2Mbps
Down Channel Rate	0~24Mbps
Up/Down Attenuation	0~63.5dB
Up/Down Noise Margin	0~32dB
Output Power	Available
Error Test	CRC, FEC, HEC, NCD, LOS
Display DSL Connect Mode	Available
Display Channel Bit Map	Available

ADSL

Standards	ITU G.992.1 (G.dmt) ITU G.992.2 (G.lite) ITU G.994.1 (G.hs) ANSI T1.413 Issue # 2
Up channel rate	0~1Mbps
Down channel rate	0~8Mbps
Up/Down attenuation	0~63.5dB
Up/Down noise margin	0~32dB
Output power	Available
Error test	CRC, FEC, HEC, NCD, LOS
Display DSL connect mode	Available
Display channel bit map	Available

VDSL2

Be compatible with ADSL2+, ADSL standard.

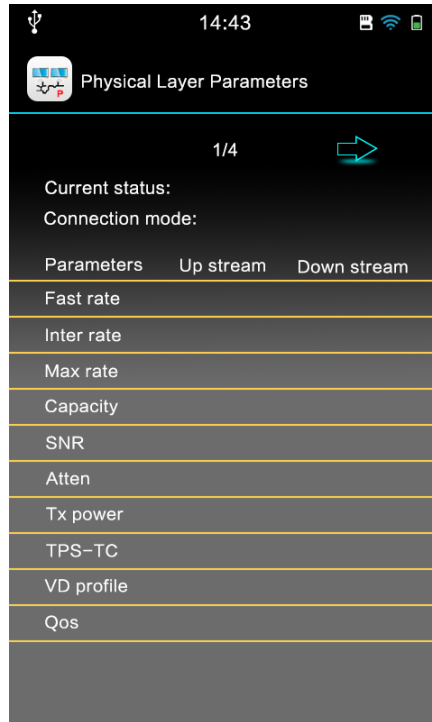
DSL line attenuation

DSL line noise margin	
DSL line up/down channel speed (Inter/Fast mode)	
DSL line up/down maximum rate	
DMT sub channel bit number: 0~15 and each sub channel frequency points	
DSL line error number (CRC, HEC, FEC, LCD, OCD)	
DSL line local output power	
DSLAM information	
Error Code Second	
Impulse Noise Protection (INP)	
TC-600A	Support Annex A and 7 VDSL2 profiles: profile 8a, 8b, 8c, 8d, 12a, 12b, 17a (100Mbit/s)
TC-600B	Support Annex B and 7 VDSL2 profiles: profile 8a, 8b, 8c, 8d, 12a, 12b, 17a (100Mbit/s)
TC-600C	Support 9 VDSL2 profiles: profile 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, 35b (300Mbit/s)
DMM Test	
DC Voltage (V)	0~400
AC Voltage (V)	0~400
Loop Resistance (Ω)	0~20000
Capacitance (nF)	0~1000
Insulation Resistance (M Ω)	0~50
TDR Test (Optional)	
Test Distance (km)	2.5
Fault Type	Break/Mix
Dead Zone (m)	<1
Resolution Rate (m)	1
Optical Power Meter (Optional)	
Calibrated Wavelength (nm)	850/1300/1310/1490/1550/1625
Measurement Range (dBm)	-70~+10
Detector	InGaAs
Accuracy	$< \pm 3\%$ (-10dBm, 22°C)
Resolution	Linearity: 0.1%; Non-linearity: 0.01dBm
Visual Fault Locator (Optional)	
Output Power (mw)	1
Test Distance (km)	5km
Wavelength (nm)	650 $\pm$ 20
Output Modes	Continuous (CW), 2Hz pulsed
Cable Tracing (Optional)	
With supplied accessories, it can do cable tracing and find the trend of the lines	
General Parameters	
LCD	4 inch, 800x480 TFT
Power Supply	Internal Rechargeable 7200mAH Li-ion battery
Battery Duration (h)	> 8
Working Temperature (°C)	0~+50
Humidity	$\leq 85\%$
Dimensions (mm)	175×80×52
Weight (g)	< 500

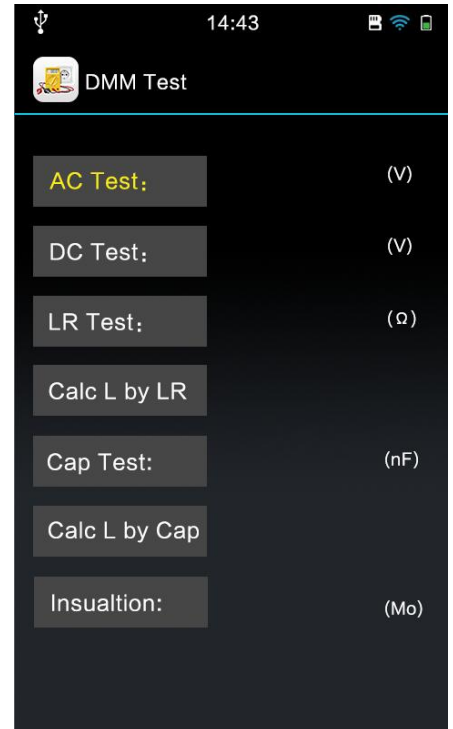
VI. TEST INTERFACE



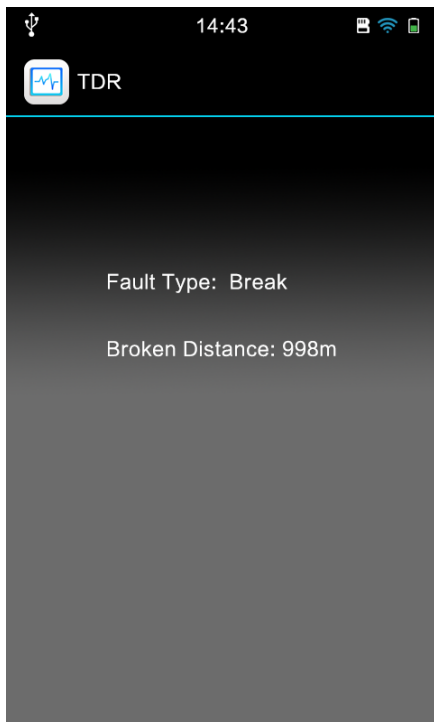
Main Test Interface



xDSL Test Interface



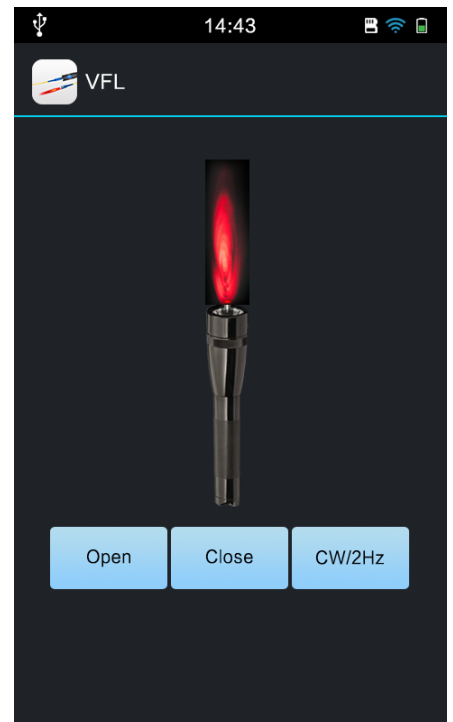
DMM Test Interface



TDR Test Interface



OPM Test Interface



VFL Test Interface

VII. PACKAGING



NO.	ACCESSORY	QTY.
1	TC-600 VDSL Tester	1pcs
2	RJ45 Test Line	1pcs
3	RJ11 Test Line	1pcs
4	USB Cable	1pcs
5	Charger	1pcs
6	Carrying Bag	1pcs
7	CD (with management software)	1pcs
8	Charge Cable	1pcs
8	Receiver for Cable Tracing	1pcs (Optional)



VIII. ORDERING INFORMATION

CONFIGURATION	ORDERING CODE	FUNCTION	NOTE
TC-600A VDSL Tester <i>Annex A and up to 17a(100Mbit/s)</i>	TC-600A	VDSL / DMM / PING / PPPOE Dial etc.	Basic/Standard
TC-600B VDSL Tester <i>Annex B and up to 17a(100Mbit/s)</i>	TC-600B	VDSL / DMM / PING / PPPOE Dial etc.	Basic/Standard
TC-600C VDSL Tester <i>Support up to 35B(130Mbit/s)</i>	TC-600C	VDSL / DMM / PING / PPPOE Dial etc.	Basic/Standard
TDR Function	T	Test Break/Mix Cable Faults	Optional Module
OPM+VFL Function	O	Optical Power Meter and 1mw VFL	Optional Module
Cable Tracing Function	C	Cable Tracing	Optional Module

For Example:

If you need 35B VDSL Tester with TDR/OPM/VFL optional functions, the ordering code will be **TC-600C-TO**