VoIP/DSL/POTS TEST SET

CoVALT

NETWORK TESTING–COPPER ACCESS

The ultimate combination of broadband services testing

- Combines DSL testing with VoIP and POTS
- Fully tests ADSL2+, ADSL2, RE-ADSL and ADSL
- Acts as a VoIP phone and analyzer over ADSL or Ethernet
- Ping, traceroute and Web download tests to help confirm Internet provisioning
- Ethernet tests to validate in-house operation

Built for the outside plant

- A reliable and economical tool
- Intuitive operation, no expensive training required
- Rugged, high-impact, water-resistant plastic chassis
- Great acoustics and ergonomic design
- Designed by telecom technicians for telecom technicians

Enhanced productivity

- Lightning-fast power-up time
- Auto-test available at the push of a button
- Selectable profiles make installation, service and troubleshooting jobs a snap
- The only test set required for every job

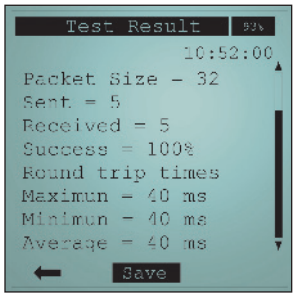
www.EXFO.com
Telecom Test and Measurement

EXFO
EXPERTISE REACHING OUT

The Perfect Tool for Testing Today's Converged Networks

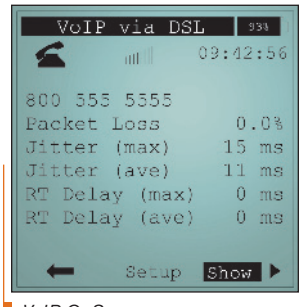
In the next few years, VoIP and other digital services may replace plain old telephone circuits; in the meantime, EXFO's CoVALT provides the best test features for both worlds. With an ergonomic and rugged design optimized for testing voice and data services, the CoVALT VoIP/DSL/POTS Test Set is the ideal tool for testing today's converged networks.

ADSL2+ test results



Ping test results

POTS setup screen



VoIP QoS summary

TEST YOUR VOICE AND DATA SERVICES

POTS

- Place and receive phone calls and enjoy all the features currently available on a butt set
- Built-in speaker and microphone for phone-like use
- Full speakerphone for hands-free operation
- Datablock feature, to prevent disruption of active digital services
- Trace tone generation for pair identification

VoIP

- Place and receive VoIP calls
- Call-quality parameters provided in real time during the conversation
- QoS analysis and pass/fail indicators

DATA

- Supports the latest xDSL standards
- Through mode or stand-alone operation, with routing/bridge capabilities
- Multiple encapsulation methods
- IP layer testing: ping, traceroute and Web download test; DHCP service confirmation, LAN device detection and POP3 account verification

OTHER

- Multiple user-defined network profiles for fast switching between locations
- Built-in extra-bright LED indicator
- Runs on a cutting-edge lithium ion rechargeable battery

POTS TESTING–PLACE AND RECEIVE PSTN / POTS CALLS SPECIFICATIONS

Dialing	DTMF or pulse. Digits 0-9 and characters * and #, up to 32 digits.
DTMF timing	90/100 ms of on/off time
Pulse timing	40/60 ms make/break time Interdigit: 800 ms
Other	Caller ID display (during incoming calls and call waiting) Tracing tone DSL service protection (datablock)

HIGHER LAYER TESTING OVER DSL OR ETHERNET SPECIFICATIONS

IP ping	Pings another active device on the network Number of pings: 1 to 99, or continuous Packet size: 1 to 1472 bytes Results: indicate packet size, packets sent/received, minimum/average/maximum roundtrip times in milliseconds (ms) Timeout: in seconds
Traceroute	Determines the path used to reach another device on the Internet Packet size: 32 bytes Max. hops: up to 99 Results: indicate IP address of hop and roundtrip time in milliseconds (ms) Timeout: in seconds
Web download test	Downloads a Web page and confirms communication Address: IP or URL Protocol: HTTP

VoIP TESTING–PLACE AND RECEIVE VoIP CALLS SPECIFICATIONS

Protocols	SIP (RFC 3261) Version 2
Codecs	G.711 μ-Law, G.711 A-Law, G.729a, G.726, G.723
RTP/RTCP support	RFC 1889 and 1890
Authentication	Username and password (up to 40 characters), STUN server support
Other	Caller ID display (during incoming calls and call waiting) Place call over established DSL link or over Ethernet

ADSL2+/ADSL2/ADSL TESTING SPECIFICATIONS

Chipset	Conexant
Termination (ohm)	100
Standards	ITU-T G.992.5, G.992.3, G.992.1 ANSI T1.413 Issue 2, G.994.1. Annex A and Annex B available.
Measurements (upstream and downstream)	Maximum bit rate Actual bit rate Signal-to-noise ratio/noise margin Output power Attenuation
ATM setup and statistics	VPI/VCI manual setup Statistics: Tx and Rx cell counters Near-end/far-end statistics
Encapsulation methods	PPPoE (RFC 2516) PPPoA / LLC (RFC 2364) PPPoA / VC-MUX (RFC 2364) Bridged Ethernet (IPoE) RFC 2684, formerly RFC 1483 IPoA
Login format	Up to 60 characters for username or password Username and password using PAP and/or CHAP
Through mode	ATM and DSL counters

GENERAL SPECIFICATIONS

Size (H x W x D)	11 $^{1}/_{4}$ in x 5 $^{1}/_{2}$ in x 2 $^{7}/_{16}$ in (285 mm x 142 mm x 62 mm)
Weight	Approx. 1.14 kg (2.5 lb)
Power	Rechargeable 7.2 VDC, 1950 mAh Li-Ion battery pack Maximum of 110 minutes to fully recharge
Autonomy	5.4 hours at 20 °C (68 °F) (typical, depending on the type of test) 12 hours in standby
AC power adapter	Input: 100-240 VAC, 50-60 Hz Output: 15 VDC, 2.7 A
Temperature	
operating	–10 °C to 45 °C (14 °F to 113 °F)
storage	–20 °C to 70 °C (–4 °F to 158 °F)
Humidity	5 % to 85 % non-condensing
Display	160 x 160 pixel backlit monochromatic LCD
Connectors	POTS/DSL test interface: strain relief, two Telco clips, one RJ-11 Ethernet test interface: 10/100BaseT RJ-45, auto-detect enabled
Storage	
results	Up to 100 results
profiles	Up to 10 individual profiles

Rugged Handheld Solutions

OPTICAL
- OLTSs
- Power meters
- Light sources
- Talk sets

COPPER ACCESS
- ADSL/ADSL2+, SHDSL, VDSL test sets
- VoIP and IPTV test sets
- Ethernet test sets
- POTS test sets

Platform-Based Solutions

OPTICAL FIBER
- OTDRs
- OLTSs
- ORL meters
- Variable attenuators

DWDM TEST SYSTEMS
- OSAs
- PMD analyzers
- Chromatic dispersion analyzer

TRANSPORT/DATACOM
- SONET/DSn (DS0 to OC-192) testers
- SDH/PDH (64 kb/s to STM-64) testers
- T1/T3 testers
- E1 testers
- 10/100 and Gigabit Ethernet testers
- Fibre Channel testers
- 10 Gigabit Ethernet testers

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