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Ameritec

Model AM5XT-200/AM5eXT-200

Ideal Repeaterless T1 HDSL Tester

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Wideband Analog Telecom Transmission Testing in an Ultra-Portable Unit

Introduction

Ameritec's AM5 series of Wideband Transmission Test Sets are engineered for peak performance in the field and the lab. They offer a full range of transmission impairment measurements, a highly versatile signal generator and basic telephone signaling in a single compact, portable unit.

The AM5's perform most standard tests, worldwide. The AM5XT-200 meets all North American IEEE 743-1984 standards.

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The AM5eXT-200 meets international ITU standards and is CE approved for use in the European Community.

The AM5XT-200 and AM5eXT-200 operate with a bandwidth of 20Hz to 200kHz. The units can perform qualification tests on circuits carrying voice band telephone, high quality audio, DDS to 64KBPS, Basic Rate ISDN, HDSL, or other services using up to 200kHz bandwidth.



Model AM5eXT-200 / International ITU Standard / 200kHz Bandwidth
(shown with optional Siemens connectors)



Model AM5XT-200 / IEEE 743-1984 Standard / 200kHz Bandwidth

Built-In Signaling

The AM5 series units are unique among most transmission test sets in that they provide basic loop start line signaling. They include separate On Hook/Off Hook DC Hold Circuits for Send and Receive Line and the ability to signal using Dial Pulse, DTMF or MF(R1).

This feature is useful in testing dial-up circuits or in commanding responder devices (such as the Ameritec AM3 Series) on 4 wire dedicated circuits.

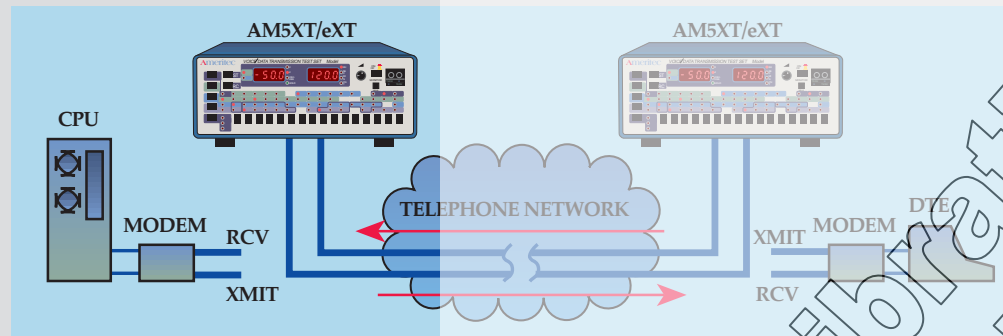
Remote Control

All front panel functions may be remote controlled by simple ASCII character strings to the optional RS232 port.

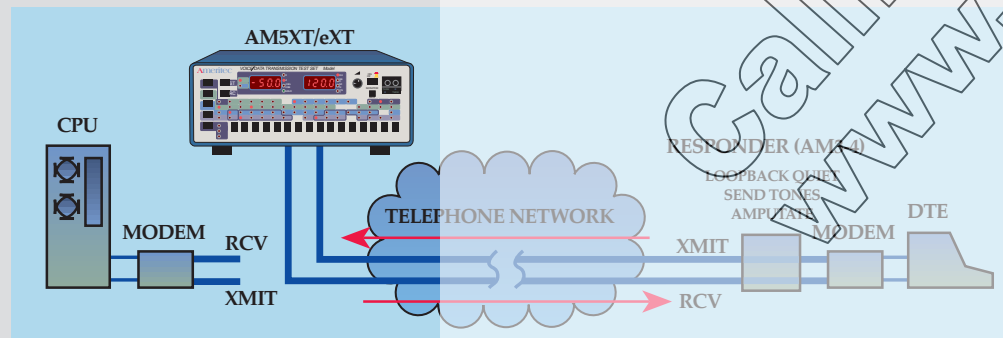
There is even an "Auxiliary" port which can be used to chain the AM5XT to a second device (for example, a co-located test access switch such as the Ameritec AM6), achieving dual control from a single terminal or computer.

When AM5XT units are used at each end of a line under test, the distant AM5XT signal generator can be commanded to recall test set-ups by sending DTMF commands from the local unit.

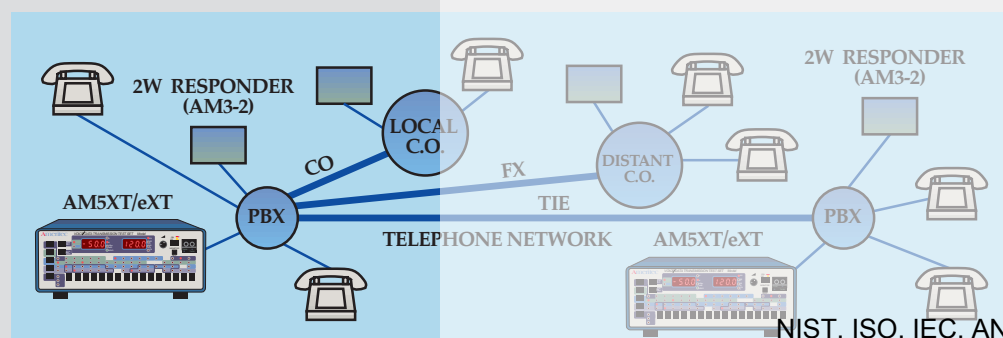
Use two sets for a complete end-to-end test of 4 wire data lines.



Use a single unit with an Ameritec AM3 Series 4 Wire Responder for centralized loopback testing.

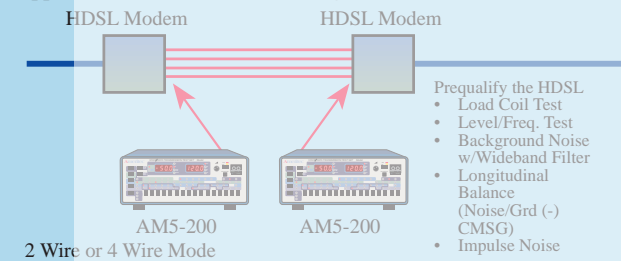


Use the AM5XT/eXT built-in dial capability on dial-up networks to access a distant Ameritec AM3 Series 2 Wire Responder or a second AM5XT/eXT for centralized 2 wire testing.



AM5eXT rear panel

Application: HDSL Circuit Testing



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Print or Plot Your Results (option 25-0045)

Optional rear panel analog outputs are provided for driving an XY plotter or strip chart recorder. This is useful in graphing frequency response, plus group or envelope delay results. This option is standard on the AM5eXT-200 (CE).

Print or Plot Your Results

An accessory printer (Model AM-47XT) is available for use with the unit. When connected to the optional RS232 port, the printer can run a hard copy of any test set-up and/or measurement result. When making envelope delay, group delay or frequency response tests, the "Print Lock" feature may be engaged for an automatic printed record of the test results in both graphic and numeric form.



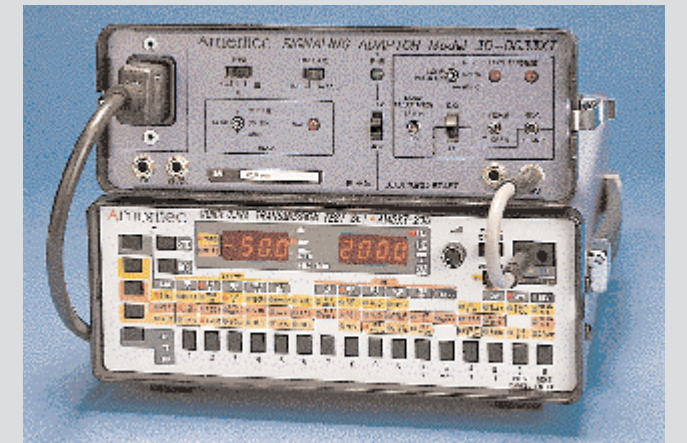
AM-47XT accessory printer.

HDSL Testing

With 200kHz bandwidth, the AM5XT-200 performs full HDSL (High-bit-rate Digital Subscribers Line) testing. HDSL provides DS1 (1.544Mbps) compatibility over two copper twisted pairs with each pair carrying a 2B1Q full duplex data stream. These pairs are tested configuring an AM5XT-200 to generate a sine wave of 196kHz and then making the appropriate level, noise and frequency measurements.

Model 30-0033XT Signaling Adaptor

The Model 30-0033XT is a Signaling Adaptor packaged within the cover (lid) of an AM5 Series Transmission Test Set or can be used as a stand alone unit. It provides for Loop Start, Ground Start, DID and Types 1, 2 and 3 E&M signaling. It also incorporates a ring generator with manual cadence selection and automatic ring trip. The unit supplies switch selectable -24 and -48 VDC line supply voltages and a switch to allow for simulation of 1240 Ω loop resistance.



AM5XT-200 instrument with 30-0033XT Signaling Adaptor

DDS/SW56 Loopback Test Set 30-0070 S:

The DDS Loopback Test Set provides CSU Loopback, DSU Non-Latching Loopback, DSU Latching Loopback and a Manual (or Forced) Loopback. DSU Latching is accomplished with or without secondary channel.



Model 30-0070 S DDS/SW56 Loopback Test Set.

The unit will transmit straightaway test patterns to the distant end with manual selection of test patterns 511, 2047, SP1, SP2, SP3, SP4 and SP5. Once again, Secondary Channel is supported during all straightaway tests.

Supported data rates are 2400, 4800, 9600, 19.2K, 56K, 64K and Switched 56K bits per second.

Switched 56K testing is performed by connecting a telephone butt set or AM5XT to the TMS TX port to provide ON/OFF Hook and pulse dial functions. Far end signaling (wink, delay, answer) is indicated via front panel LED.

The DDS Loopback Test Set is rack mount into / front panel cover lid for an Ameritec Loopback Test Set. To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here >> www.raeservices.com/services/quote.htm

DDS Loopback Test Set 30-0070

Similar to the 30-0070 S Test Set except without SW56 capability.

Accessories and Options



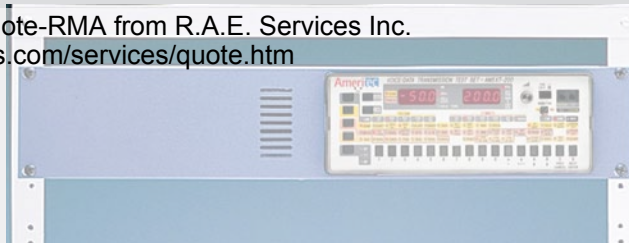
Unit with cover, manual, power cord, optional soft case, printer and cables.

Provided: Model AM5XT-200 or AM5eXT-200, or AM5eXT (CE) removable front cover with cord storage, power cord and instruction manual.

Portable or Rack Mount: No other analog transmission test set this full-featured is so convenient. About the size and weight of a telephone directory, it is easily transported from lab to field. For permanent installations, a rack mounting kit is available for the AM5XT and AM5eXT models which will allow 19" relay rack mounting in only two rack increments of space.

Optional Battery: An optional internal, rack-mountable battery pack is available for full portable "cordless" operation. The batteries are of the sealed lead acid type and require no maintenance. A front panel low battery indicator indicates when recharging is needed.

The built-in charger allows the batteries to be charged even while the unit is in operation.



Unit shown in rack mount configuration.

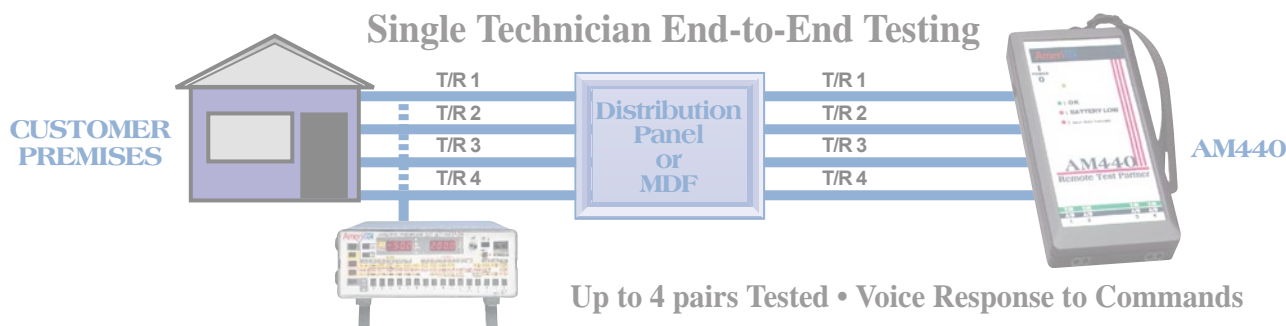
Options:

- 25-0019 RS232 Remote Control Port with Auxiliary RS232 Output Port. This option required for printer plotting or printer output. Included with AM5eXT-200(CE).
- 24-0017 Internal Power Pack (Sealed Rechargeable Lead Acid Batteries) and Internal Charger. Included with AM5eXT-200(CE).
- 25-0041 "Siemens" Type Line Test Set Connections.
- 25-0045 Analog XY Plotter Output (Prerequisite 25-0019). Included with AM5eXT-200(CE).
- 25-0145 Add 310 type input jacks.
- 25-0240 Complex Impedance (AM5eXT-200). Contact factory for details.

Accessories:

- 30-0025 -48 VDC Source Battery Cover
- 30-0030XT Signaling Adaptor Cover
- 30-0070 DDS Loopback Test Set Cover
- 30-0070S DDS/SW56 Loopback Test Set Cover
- 85-0070B Padded Soft Carrying Case with Pouch for AM-47XT Printer.
- AM-47XT Hand-Held Printer Plotter with Integral Rechargeable Batteries. Includes a Roll of Paper, AC Adaptor, Connecting Cable. Prerequisite: Option 25-0019
- 26-0014 Replacement Paper for AM-47XT.
- 26-0015 Replacement Ink Cartridge for AM-47XT.
- 85-0076 19" Rack Mount Kit.
- 48-0062 6 Ft. Bantam to Clip Input Cable, two Req.
- 48-0047 6 Ft. Bantam to Bantam Input Cable, two Req.
- 48-0048 6 Ft. Bantam to 310 Input Cable, two Req.

APPLICATION: AM5 and the AM440 Remote Testing Partner



Through its DTMF dialing capability the AM5 commands the AM440 to:

- Open Tip and Ring for foreign voltage tests
- Ground Tip and Ring for resistance to ground measurements
- Transmit preset tones from 304Hz to 384kHz, slopes, sweeps
- Short Tip to Ring to measure loop resistance
- Quiet Termination for Noise or Impulse Noise testing
- Test for Load Coils

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