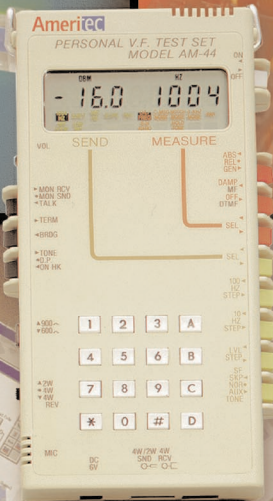


Model AM44



Ameritac Corporation is an ISO 9001:2000 Certified Company

Hand-Held Transmission Test Set

Ameritac

AM-44

Ameritrac
PERSONAL P.V. TEST SET
MODEL AM-4

SW ST

- 16.0 100.4

VOL SEND MEASURE

* 100V
 * 200V
 * 500V
 * 1000V
 * 2000V
 * 5000V
 * 10000V
 * 20000V
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 * 100V
 * 200V

AM-48

Ameri-Net

**PERSONAL TRANSMISSION TEST SET
MODEL AM-40**

- 16.0 1004

SEND MEASURE PUL TEST

MODE STOP START FREQ UNIT TIME MODE STOP START FREQ UNIT TIME

0 1 2 3 4 5 6 7 8 9 * #

STOP START FREQ UNIT TIME

0 1 2 3 4 5 6 7 8 9 * #

STOP START FREQ UNIT TIME

Below is a feature comparison of the available units:

		0dB LEVEL ABSOLUTE											0dB LEVEL RELATIVE (LOSS)											FREQUENCY											FREQUENCY RESPONSE											NOISE, IDLE CHANNEL											PAIR WITH TONE											SIGNAL NOISE RATIO											THREE LEVEL IMPULSE RATIO											PHASE JITTER											DROPOUTS											200-3,000Hz											200-20,000Hz											TALKY LISTEN											DC HOLD (ON/OFF HOOK)											PRINTER OUTPUT											EMERGENCY OUTPUT											STORE/RECALL											FULL DUPLEX SEND/MEASURE											INTERNAL BATTERY CHARGE											AUTO SWEEP											MANUAL SWEEP											C-MESSAGE											PROGRAM											PSOPHOMETRIC											3 kHz											15 kHz											820 kHz											1070 kHz NOTCH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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AM-48 Technical Specification

Characteristics	General Specifications
Measurements:	<p>Level: 0dBm, loss (dB) relative Frequency (Hz):</p> <p>Noise (1) 15 kHz flat, 15 kHz flat</p> <p>CMsg, or Program filter</p> <p>Noise (2) 100 Hz notch and signal to above noise-weighting filter</p> <p>Any - to Noise ratio (dB)</p> <p>P.A.R. Amplifier (dB)</p> <p>Phase jitter (degrees)</p> <p>3-level Impulse Noise</p> <p>Transient measurements (with tone):</p> <p>Drops</p> <p>Gain hits</p> <p>Phase hits</p> <p>3-level impulse noise</p>
Dial:	<p>Build-in 16 button keypad for dial pulse, DTMF (Touch tone), or Mf dialing.</p>
Talk/Listen:	<p>Build-in microphone and speaker with push-talk operation on both jack and 4-wire lines. Earphone jack for provided earphone.</p>
Line Hold:	<p>A single line holding circuit is provided for 2-wire operation, or the send pair of 4-wire circuit. It electronically simulates a holding coil with a D.C. resistance of approximately 200 Ohms. The A.C. impedance is high enough to give no more than 0.2 dB loss at 600 ohm impedance.</p>
Impedances:	<p>Terminating: 600 or 900 Ohm.</p> <p>Bridge: $\pm 25 \text{ K Ohm}$</p> <p>Balance: $> 60 \text{ dB}$ below 4 kHz, decreasing 6 dB/octave above 5 kHz.</p> <p>Return loss: $> 30 \text{ dB}$ 200-5000 Hz, $> 15 \text{ dB}$ 5-20 kHz, D.C. blocking: 150 volts.</p>
Printer:	<p>Optional printer for hard copy of unit setup and measurement results.</p>
Store/Recall:	<p>10 complete Unit setups may be stored by user in internal nonvolatile memory and recalled for ease of repeating frequently used tests. In addition, the results of the last impulse or transient study (along with the associated setup) are stored to non-volatile memory at the completion of the study. They are recalled automatically whenever the unit is turned on.</p> <p>Also stored in non-volatile memory are 10 User-programmable momentary frequencies.</p>
Characteristics	Specifications
Variable:	<p>Frequency: 200 Hz to 19,999 Hz in 1 Hz steps. Frequency may be entered directly via the keypad or stepped up or down in 10 Hz steps or auto repeat steps of 100 Hz (4 steps/second) for fast frequency slewing. Frequency is crystal-controlled and accurate to $\pm 5 \text{ Hz}$.</p> <p>Level: -10.0 dBm to -50.0 dBm in 1 dB steps. Level may be entered directly via the keypad or stepped up or down in 1 dB steps or auto repeat steps of 1.0 dB (4 steps/second) for fast level slewing. Level accuracy is as follows:</p> <p>200Hz 15 kHz 20 kHz</p> <p>+10 -0.2 -0.5</p> <p>-40 -0.5 ± 1.0</p> <p>-50</p>
1004 Hz:	<p>A fixed 1004 Hz holding tone is provided. The frequency is accurate to $\pm 0.25\%$.</p> <p>Level is same as variable.</p>
3-Tone: (Slope)	<p>A three tone slope frequency mode is provided which cycles continuously between 404 Hz, 1004 Hz, and 2004 Hz, giving 5 seconds of each tone. Frequency accuracy is same as variable. Level is same as variable.</p>
Sweep:	<p>A programmable frequency sweep generator is provided. It generates tones continuously from 404 Hz, 1004 Hz, and 2004 Hz, giving 5 seconds of each tone. Frequency accuracy is same as variable. Level is same as variable.</p> <p>A user specified STOP frequency (200 Hz to 19,999 Hz) at a user specified frequency (200 Hz to 19,999 Hz) and at a user specified dwell time (0.1 second to 1,999.9 seconds frequency). Frequency accuracy is same as variable. Level is same as variable.</p>
P.A.R.:	<p>A P.A.R. waveform generator is provided which generates the 16 simultaneous frequency P.A.R. waveform per Bell 41009 specifications. The level may be set from 0.0 dBm to 40.0 dBm with 0.1 dBm resolution.</p>

Quiet:	Quiet:
	<p>In quiet the line is terminated with a passive resistance equal to the line impedance. Also, when in quiet, one of 10 user-programmable tones may be momentarily applied to the line by depressing the 19 Hz button. Programmable from this mode</p> <p>(1) Touch tone dial (1 Hz to 500 Hz)</p> <p>(2) Power Auto Time Off (1 to 255 minutes), (3) impulse and transient test (Blanking interval (1 to 255 ms) and (4) 10 user-programmable tones for later instant recall.</p>
X tone:	<p>A momentary push button is provided for the generation of an auxiliary tone (27.1 Hz), used to activate remote 82N-type loopback devices.</p>
SF Skip:	<p>A Signaling Frequency (SF) Skip mode prevents the generation of tones between 2450 Hz and 2750 Hz in variable or sweep modes.</p>
Distortion:	<p>Total distortion is $< -50 \text{ dB}$ for the fixed 1004Hz Holding Tone Generator and $< -40 \text{ dB}$ for all other generator modes and frequencies.</p>
Characteristics	Specifications
Level/Freq:	<p>Level is measured with an average Responder detector. Range is -10.9 to -65.0 dBm with 0.1 dB resolution.</p> <p>Accuracy is as follows:</p> <p>Noise: Accuracy is $\pm 0.1 \text{ dBm}$ at 1004 Hz from 0.0 dBm to -20.0 dBm.</p> <p>Frequency: is measured from 200 Hz to 19,999 Hz with an accuracy of $\pm 0.1\%$ = 1 Hz, and a resolution of 1 Hz. Input level = -10 to -40 dBm.</p>
P.A.R.:	<p>Peak-to-Average Ratio is measured from 0 to 120 units to a resolution of 1 P.A.R. unit. Accuracy is: 2 from 30 to 110, ± 4 outside of this range.</p> <p>P.A.R. signal level is measured from 0 to -40 dBm with a resolution of 0.1 dBm, using an RMS detector.</p>
Noise:	<p>Noise is measured with an RMS responding detector from 10 to 99 dBm to 1 dBm resolution.</p> <p>Accuracy is $\pm 1 \text{ dBm}$ from 10 to 99 dBm, and $\pm 2 \text{ dBm}$ from 10 to 20 dBm.</p> <p>Weighting filters are 3 KHz flat, 15 KHz flat, CMsg, and Program filter.</p>
Notched Noise:	<p>Notched noise is the same as noise with the addition of a 1010 Hz notch filter, minimum 50 dB deep from 995 to 1025 Hz.</p>
S/N ratio:	<p>Signal-to-Noise (S/N) ratio displays the ratio of signal (holding tone) to notched noise. The signal must be -10 to -40 dBm. The notched noise may be 10 to 70 dBm. The S/N ratio may be from 10 to 50 dB. Resolution is 0.5 dB. Accuracy is $\pm 1 \text{ dB}$ for notched noise 20 to 70 dBm, and $\pm 2 \text{ dB}$ for notched noise from 10 to 20 dBm.</p>
Amplitude Jitter:	<p>Displays the incidental amplitude modulation of a holding tone. The holding tone must be -10 to -40 dBm, 990 to 1030 Hz.</p> <p>Amplitude jitter is displayed from 0.0 to 2.0% with a resolution of 0.1% and an accuracy of $\pm 2\%$ $\pm 5\%$ of reading.</p> <p>Weighting filters of 20-300 Hz and 4-300 Hz are provided.</p>
Phase Jitter:	<p>Displays the incidental phase modulation of a holding tone. The holding tone must be -10 to -40 dBm, 990 to 1030 Hz. Phase jitter is displayed in degrees from 0.0 to 25.0 degrees with a resolution of 1 degree and an accuracy of ± 2 degree $\pm 5\%$ of reading.</p> <p>Weighting filters of 20 300 Hz and 4-300 Hz are provided.</p>
Impulse Noise:	<p>The three level impulse noise mode is provided which can be set from 30 to 110 dBm with threshold differences of 2, 3, 4, or 5 dB. Threshold accuracy $\pm 1 \text{ dB}$. A user-selected blanking interval from 1 to 255 ms blocks further counting of impulse independently for each threshold. The study for 1000 Hz may be set from 1 minute to 1999.9 minutes in 1 minute steps, or set to 0 for a continuous study. Each threshold has a count capacity of 0 to 9999. Weighting filters same as Noise.</p>
Transients:	<p>Counts drops, gain hits, phase hits, and 3 level impulse noise with tone. Holding tone must be 10 to 40 dBm, 995 to 1025 Hz.</p>

Dropout threshold -12 dB from the initial level of the holding tone.	Dropout threshold -12 dB from the initial level of the holding tone.
	<p>A dropout will be counted if the holding tone drops below the threshold for at least 4 ms \pm 5 ms. Counting of drops, gain hits, phase hits and impulses is inhibited for a blanking interval which lasts until after the holding tone is restored to a level above the dropout threshold.</p>
Gain Hit threshold can be 2, 3, 4, or 5 dB.	<p>Gain Hit threshold can be 2, 3, 4, or 5 dB. A gain hit will be counted if the level of the holding tone changes up or down by more than the threshold odd for at least 4 ms \pm 5 ms. A blanking interval, that is user-set from 1 to 255 ms, blocks further counting of gain hits.</p>
Phase Hit threshold can be 5 to 45 degrees in 1 degree steps with an accuracy of ± 5 degrees $\pm 10\%$ of the setting.	<p>Phase Hit threshold can be 5 to 45 degrees in 1 degree steps with an accuracy of ± 5 degrees $\pm 10\%$ of the setting. A phase hit will be counted if the phase of the holding tone changes by more than the threshold odd for at least 4 ms \pm 5 ms. A blanking interval, that is user-set from 1 to 255 ms, blocks further counting of gain hits.</p>
Three-level impulse noise mode, threshold can be set from 30 to 110 dBm with threshold differences of 2, 3, 4 or 5 dB.	<p>Three-level impulse noise mode, threshold can be set from 30 to 110 dBm with threshold differences of 2, 3, 4 or 5 dB. Threshold accuracy $\pm 1 \text{ dB}$. A blanking interval, user-set from 1 to 255 ms, blocks further counting of impulses independently for each threshold.</p>
The study duration timer may be set from 1 minute to 1999.9 minutes in 1 minute steps, or set to 0 for a continuous study.	<p>The study duration timer may be set from 1 minute to 1999.9 minutes in 1 minute steps, or set to 0 for a continuous study.</p>
Each transient has a count capacity of 09999. Filters same as Noise.	<p>Each transient has a count capacity of 09999. Filters same as Noise.</p>
Damping:	<p>A damp mode reduces the display update rate from approximately 4 times/second to approximately 2 times/second for reading widely fluctuating measurements.</p>
The same switch, when in (DAMP) position, also changes the monitoring point of the receive (RCV) monitor speaker to the output of the auto-sense amplifier (significantly increasing the speaker level).	<p>The same switch, when in (DAMP) position, also changes the monitoring point of the receive (RCV) monitor speaker to the output of the auto-sense amplifier (significantly increasing the speaker level).</p>
Term/Bridge:	<p>When terminating, the receiver terminates the line in the selected impedance. In bridge, the line is bridged by a high impedance ($> 25 \text{ K Ohm}$), causing no more than 0.2 dB loss on a 600 ohm line.</p>
POWER PHYSICAL	POWER PHYSICAL
Characteristics	Specifications
Power:	<p>Four 1.5V "AA" alkaline batteries (Duracell) provide about 6-8 hours operation.</p> <p>Optional NiCad batteries offer the economy of rechargeability but with reduced operating time.</p> <p>External AC adapter powers unit with 12 VDC and charges optional NiCad batteries in the unit.</p> <p>Auto-shutoff after last switch action is user-programmable for 0 (no shutoff) or from 1 to 255 minutes. May be overridden by placing power switch in the "on" position. Does not turn itself off while study is in progress.</p> <p>4.2" (107mm x 76"mm)</p> <p>19x1mm 1 x 1.75 (4mm) ID</p> <p>Freige, 21 x 6 with alkaline batteries</p> <p>Conformal and RJ-11C modular jack</p> <p>6 (Mates with Switchcraft JT253 or AD P777 phone plugs .175" Dia)</p>
Physical:	<p>4.2" (107mm x 76"mm)</p> <p>19x1mm 1 x 1.75 (4mm) ID</p> <p>Freige, 21 x 6 with alkaline batteries</p> <p>Conformal and RJ-11C modular jack</p> <p>6 (Mates with Switchcraft JT253 or AD P777 phone plugs .175" Dia)</p>
AM-48 TECHNICAL SPECIFICATIONS	AM-48 TECHNICAL SPECIFICATIONS
	<p>AM-48 is an expert model which meets world CE standards. All specifications are identical to the AM48 except as follows:</p> <ol style="list-style-type: none"> 1. Provided noise filters are psychometric (in place of C-Message) and sound weighted (in place of program). 2. Noise measurements are in units of dBm instead of dBm (dBm = 90 dBm). 3. SF skip range is 2130 Hz to 2430 Hz. 4. Slope tones are 304, 804, 2004, and 3004 Hz.

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Here's Everything You



Unit shown is actual size,

u Need In An Analog T

The AM-44 is a powerful hand-held Transmission Impairment Test Set. Through the use of surface mount technology the AM-44 incorporates measurement capability and features unmatched.

Designed for field testing of voice and data on 2 or 4 wire telecommunications transmission circuits over the extended voice band (200 Hz to 20 kHz), the AM-44 fully complies with IEEE 743-1984 (Bell Standard 41009). The Model AM-44E is the export version and fully complies with world standard ITU-T recommendations.

The unit is actually three instruments in one:

It is a measurement set able to measure:

- dBm level or dB loss
- Frequency
- Frequency Response (Attenuation Distortion)
- Noise
- Noise with Tone
- Signal/Noise Ratio
- P/AR
- 3 Level Impulse Noise
- Phase and Gain Jitter
- Hits and Dropouts

It is a full function signal generator able to generate all of the test tones and waveforms needed to perform the above-listed measurements.

It is a telephone set with dial, talk and listen capability.

The unit is furnished complete with alkaline batteries, AC adapter, input cord, earphone, and instruction manual.

Optionally available are hand-held printer, NiCad batteries, impedance adapter, soft carrying case and a wide selection of input cords.



Simple Operation

The hand-held AM-44 is easily operated. Simply use the color-coded controls and menu selection to choose the desired measure mode and send mode. The proper units of measurement are automatically displayed and the autoranging measurement circuitry automatically



Large easily-read LCD with simultaneous display of test set-up menu and measurement.

displays the reading. If the measurement is out of range, the display will indicate "over" or "under."

All controls are edge-mounted rocker switches or slide switches with descriptive labeling on the front of the unit for all switch functions.

The keypad, normally used for dialing, has a secondary function which allows setting of all control parameters associated with the more complex tests. The keypad also allows setting of signal generator levels and frequencies.

As an added convenience, there is a mini instruction manual on the back of the unit to act as a memory jogger operation guide.

Store and Recall

A user-programmable, non-volatile memory is contained within the unit. It allows up to ten operator-defined send/measure test configurations to be stored as well as up to ten operator-defined test tone frequencies. Any of these can be recalled by a single keystroke thereby greatly simplifying operation of the unit.

Transmission Test Set

Compact Convenience

About the size of a calculator, the AM-44 weighs 23 ounces. Carry it in your briefcase, in your tool kit or even in your pocket. It is powered by four size AA alkaline batteries or an accessory AC adaptor.

Optionally the unit may be used with four size AA rechargeable NiCad batteries. The AM-44 contains a built-in battery charger which, when used with the accessory AC adaptor, both charges the NiCad batteries and operates the unit.

With its built-in stand/hang bale, the unit can be propped on a table or hung from a hook. You can take it anywhere and it will always be available when you need it.

Built-In Telephone Set

With its selection of 600 or 900Ohm termination impedances as well as high impedance bridge capability, the unit can be used in a variety of applications. A unique feature of the AM-44 is the built-in dialing capability. The unit can signal with dial pulse, tone (DTMF) or MF. This feature, combined with

the built-in DC hold circuit and speaker/ microphone, enables one tester to communicate with another over the line under test. No need for a second communications line and no need for an external "butt" set (field telephone set).

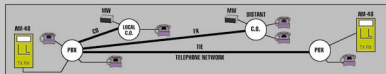
Hand-Held Accessory Printer

The available Model AM-47 printer takes advantage of the manual and automatic printout modes of the AM-44. The printer is about the same size as the AM-44, is self contained, powered by rechargeable internal battery pack and fits into the AM-44 accessory case.

A touch of the AM-44 "Print" key will cause a printout of the currently

Displayed measurement as well as test parameters. When making timed tests such as impulse noise or transients, the AM-44 will automatically print out each 15 minutes and at the end of the study.

The printer uses standard adding machine paper and a replaceable ink cartridge using an impact printing mechanism.



Use the AM-44 built-in dial capability on dial-up networks to access a second AM-44 for centralized 2-wire testing.



Use a single unit for centralized loopback testing.



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