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## Hand-Held Transmission Test Set

ST, ISO, IEC, ANSI, NCSL, MIL-STD by [www.raeservices.com](http://www.raeservices.com)

Ameritec Corporation is an ISO 9001:2000 Certified Company

## The AM-4 Series of Hand-Held Transmission Test Sets

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They are AM-44 and AM-48 which comply with Bell Pub. 41009 and IEEE 743-1984 and the model AM-48E and AM44Ea which comply with ITU-T recommendations for most international applications. All units have the same physical size.

The AM-44 has a built-in dial keypad for dial pulse, touch tone and MF dialing, plus, P/AR send and measure functions. Using the AM-44 you can achieve measurements up to 5000Hz.

At the top of the line, the AM-48 includes all features of the AM-44 and combines the transient test functions AM-44 necessary to test both voice and high-speed data lines.

The AM-48 has an extended bandwidth of 20kHz and performs all the tests most often required when testing transmission quality on analog lines.

The AM-4 series product line offers service personnel, engineers, and technicians the means to quickly and conveniently test for transmission impairments on two and four wire analog voice and data facilities.

Below is a feature comparison of the available units:



AM-48



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80% LEVEL, ABSOLUTE  
dB LEVEL RELATIVE LOSS  
FREQUENCY  
FREQUENCY RESPONSE  
NOISE DLE CHANNEL  
SIGNAL WITH TONE  
PARALLEL/ANTENNA/IND  
THREE LEVEL IMPULSE NOISE  
PHASE JITTER  
DROP/OUTS  
PHASE AND GAIN HITS  
20-20,000HZ  
TALK/STEN  
DIAL PULSE TONE AND MF  
STORE/RECALL  
FULL DUPLEX SEND/MEASURE  
INTERNAL BATTERY CHARGE  
EXTERNAL BATTERY CHARGE  
MANUAL SLEEP  
AUTO SLEEP  
MESSAGE OFF  
PROGRAM  
PSYCHOMETRIC  
SOUND-WEIGHTED  
J 1HZ  
10 1HZ  
20 1HZ  
30 1HZ

IEEE  
(E 743)  
1984

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AM-48  
AM-48E  
AM-44Ea

MEASUREMENTS

MISCELLANEOUS

FILTERS

# Here's Everything You

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Flip up wire stand

Speaker Volume control

Speaker Monitor selection and push to talk

High Impedance Bridge/Terminate Switch

On Hook/off Hook/ Pulse-Tone Switch

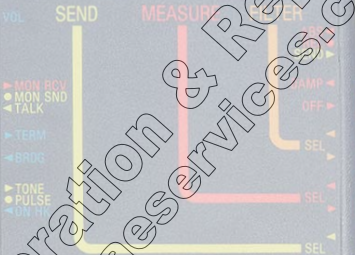
Terminate Impedance Selection

2 Wire/ 4 Wire 4 Wire Rev Switch

Microphone

**Ameri**  
PERSONAL TRANSMISSION TEST SET  
MODEL AM-48

DBM      HZ  
- 16.0      1004



Permanent on/Auto Shut-off and power off Switch

Display selection of measurement (absolute or relative) or send

Damping of display refresh rate

Filter select

Measure select

Send select

Tone dialing selection/ secondary keypad function select

2713 Hz Send/SF skip switch

Store/recall and print switch

Rugged injection molded case

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by [www.raeservices.com](http://www.raeservices.com)

Dual Bantam Connectors for send and receive pairs

Dial and parameter entry keypad

AC Wall Adaptor

RJ11 line connector

Unit shown is actual size,

# You Need In An Analog T

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The AM-48 is a powerful hand-held Transmission Impedance Analyzer. The AM-48 uses the latest mount technology the AM-48 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-48 fully complies with IEEE 743-1984 (Bell Standard 41009). The Model AM-48E 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 Group Delay
- Hits and Drops

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

*It is a telephone set with dual talk and listen capability.*

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

Optionally available are

impedance adapter soft carrying case and a wide selection of input cords.



The hand-held AM-48 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 easy-to-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 button stroke during the normal operation of the unit.

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# Transmission Test Set

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About the size of a calculator, the AM-48 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-48 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-48 is the built-in dialing capability. The unit can signal with dial pulse tone (DTMF) or MF. This feature, combined with

the built-in PG144, a programmable telephone, 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).

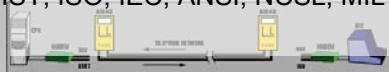


Use the AM-48 built-in dial capability on dial-up networks to access a second AM-48 for centralized 2-wire testing.



Use a single unit for centralized loopback testing.

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

