

KEYSIGHT TECHNOLOGIES (AGILENT HP)

4934A

The Keysight (Agilent/HP) 4934A Transmission Impairment Measurement Set (TIMS) is a rugged, portable analog circuit tester designed for telephone companies and service providers. Operating over a 20 Hz to 110 kHz bandwidth, it enables comprehensive transmission testing in compliance with the IEEE 743-1984 North American standard. Equipped with WECO 310 connectors and multiple weighting filters, the 4934A measures level/frequency, noise-to-ground, notched noise, SNR, 3-level impulse noise, and Peak-to-Average Ratio (P/AR) for installation and maintenance productivity.

SPECIFICATIONS

General

Interfaces	WECO 310 jacks, Dial/Talk Binding Posts
Display	Dual 4-digit LED displays

Physical

Operating Temperature	0 to 50 °C
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Transmitter (Signal Generator) Specifications

Transmitter Frequency Range	20 Hz to 110 kHz
Transmitter Frequency Resolution	1 Hz (20 to 9999 Hz), 10 Hz (10.0 to 99.9 kHz), 100 Hz (100.0 to 110.0 kHz)
Transmitter Output Level Range (600 Ω)	-40 to +13 dBm
Transmitter Output Level Resolution	0.1 dB
Transmitter Output Impedances	135 Ω, 600 Ω, 900 Ω

Receiver Specifications

Receiver Frequency Range	20 Hz to 110 kHz
Receiver Level Resolution	0.1 dB

Noise and Distortion Measurements

Noise Weighting Filters	C-message, 3 kHz flat, 15 kHz flat, Program, 50 kbit
Impulse Noise Counters	3 independent counters up to 9999 counts
Peak-to-Average Ratio (P/AR) Range	0 to 120 P/AR units

Telecom and Signaling Interface Features

Line Connection Modes	2-wire, 4-wire
Dial/Talk Set Interface	Allows connection of standard test sets via binding posts

Physical & Environmental

Standards Compliance	IEEE 743-1984 North American standard
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Configuration & Options

Bell Version Impedance Configuration	135 Ω, 600 Ω, 900 Ω
CCITT Version (Option 010) Impedance Configuration	150 Ω, 600 Ω, 900 Ω

TECHNOLOGY

Analog Telecom Testing

APPLICATIONS

Transmission Impairment Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.