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Data Sheet

August 14, 2026

GENRAD

GenRad 1840A Output Power Meter

GenRad 1840A Output Power Meter Overview The General Radio Type 1840-A is an audio-frequency output power meter providing a selectable constant load impedance and a meter calibrated in watts and dB referred to 1 mW. OEM manual specifications list 0.1 mW to 20 W in decade ranges from 40 Hz to 20 kHz with 48 discrete impedances from 0.6 ohm to 32 kohm. Applications Audio amplifier and oscillator output power measurement, matching source impedance with selectable loads, and AF power measurements in watts or dBm. Key Features 48 discrete load impedances T-network attenuator in 10 dB steps Quasi-RMS detector meter in watts and dB Convertible bench cabinet with tilt feet Transformer-coupled constant-load architecture Technical Specifications Power Range: 0.



MODEL

GenRad 1840A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1840A

LISTING

<https://aumictechlabs.com/products/1840a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GenRad 1840A precision impedance analyzer is engineered for accurate and reliable measurements of electrical components. It measures capacitance, inductance, resistance, and dissipation factor ($\tan \delta$) with high precision. Featuring a wide frequency range, it supports detailed component analysis, making it suitable for quality control, design validation, and research. Its solid design and user-friendly interface ensure consistent performance in demanding laboratory and production environments.

1840A Characteristics / Specifications

PARAMETER	VALUE
Power Range	0.1 mW to 20 W in decade ranges
Frequency Range Full Rating	40 Hz to 20 kHz
Maximum Rating Reduction At Low Frequency	up to 50% at 20 Hz depending on impedance dB Range Class: spans about 53 dB referred to 1 mW
Impedance Range	0.6 ohm to 32 kohm in two ranges
Number Of Discrete Impedances	48
Impedance Step Ratio Approximate	sixth root of four (about 1.26 to 1)
Attenuator Steps	10 dB (10 to 1 power) steps
Meter Calibration	watts and decibels referred to 1 mW
Detector Type	quasi-RMS meter plus rectifiers
Architecture	multi-tap transformer into essentially constant load
Low Frequency Caution	magnetizing current limits power at low frequencies per manual curves
Cabinet	convertible bench cabinet
Intended Band	audio frequency
Primary Measurement	output power into selected impedance
Impedance Selection Continuity	48 logarithmic steps
Upper Frequency Full Spec	20 kHz
Lower Frequency Full Spec	40 Hz
Minimum Power Indication Class	0.1 mW
Maximum Power Indication Class	20 W
Reference Level For dB	1 mW
Form Factor	bench cabinet with adjustable tilt feet

1840A Specifications

PARAMETER	VALUE
GenRad 1840A Output Power Meter	Overview
Key Features	48 discrete load impedances
Technical Specifications	Power Range: 0.1 mW to 20 W in decade ranges

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list 0.1 mW to 20 W in decade ranges from 40 Hz to 20 kHz with 48 discrete impedances from 0.6 ohm to 32 kohm.

Applications

Audio amplifier and oscillator output power measurement, matching source impedance with selectable loads, and AF power measurements in watts or dBm.

Key Features

48 discrete load impedances

T-network attenuator in 10 dB steps

Quasi-RMS detector meter in watts and dB

Convertible bench cabinet with tilt feet

Transformer-coupled constant-load architecture

Technical Specifications

Technical Specifications

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Notes

Specs from General Radio Type 1840-A Output Power Meter instruction manual (IET Labs archive). Observe the manual power-vs-frequency curves to avoid transformer saturation damage to DUT.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.