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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E7404A EMC Analyzer, 30 Hz to 13.2 GHz

The Agilent E7404A is a member of the E7400A-series EMC spectrum analyzers intended for precompliance and EMI evaluation. OEM E7400 A-series data sheets list quasi-peak and average detector support, optional tracking generators, and shared RBW architecture across the family with model-specific upper frequency limits. Precompliance EMI scans, radiated and conducted emissions troubleshooting, and general-purpose spectrum analysis on the EMC analyzer platform. Quasi-peak and average detectors for EMI-oriented measurements

Frequency Extension Assembly: standard on E7404A Operating Temperature Spec Condition: 0 C to plus 55 C OEM warranty window Warmup Align Class: Align Now RF within 24 hour period after 5 minute warm-up class Remote Interface Class: GPIB standard; RS-232 alternate interface available



MODEL

**Agilent / Keysight
E7404A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E7404A

LISTING

<https://aumictechlabs.com/products/e7404a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E7404A EMC Analyzer is a spectrum analyzer engineered for electromagnetic compatibility testing across 30 Hz to 13.2 GHz. It delivers peak, quasi-peak, and average detections for pre-compliance EMI measurements in development and manufacturing environments. The instrument supports radiated emissions testing with broadband antennas,

conducted emissions via LISN, and near-field diagnostics using close field probes. Technical Specifications Frequency Coverage 9 kHz to 13.2 GHz (30 Hz lower limit available for DC-coupled measurements) Resolution & Accuracy Resolution Bandwidth (RBW): 1 Hz to 3 MHz (-3 dB); 1 Hz to 300 Hz available in spans ≤ 5 MHz Frequency Readout Accuracy: $\pm(\text{frequency indication} \times \text{frequency reference error} + \text{span accuracy} + 15\% \text{ of RBW} + 10 \text{ Hz}) + 1 \text{ Hz} \times N^3$ Frequency Reference Stability: $\pm 1 \times 10^{-8}$ (temperature); $\pm 1 \times 10^{-8}$ (settability); $\pm 1 \times 10^{-7}$ /year (aging) Signal Detection Peak, quasi-peak, and average detectors Internal preamplifier with 20 dB nominal gain Key Features Full spectrum analyzer functionality with frequency, amplitude, modulation, and distortion measurements Preprogrammed automated EMI measurements Dual limit line display with margin tracking Signal storage capacity: up to 2000 signals in internal list Zone feature for simultaneous broad spectrum and magnified signal viewing Corrections applied for antennas, cables, and amplifiers Color display with large viewing area Automatic alignment routines at power-on; manual "Align Now RF" available every 24 hours 5-minute warm-up period Built-in 3.5" disk drive Optional tracking generator available Typical Applications Pre-compliance EMI testing during product development Radiated and conducted emissions measurement Near-field troubleshooting with diagnostic probes Signal analysis and frequency characterization Manufacturing quality assurance and problem isolation

E7404A Characteristics / Specifications

PARAMETER	VALUE
Model	E7404A
Instrument Type	EMC spectrum analyzer
Frequency Range 50 Ohm	9 kHz to 13.2 GHz
Frequency Reference Aging Opt 1D	plus or minus 1e-7 per year class
Frequency Reference Temperature Stability Opt 1D	plus or minus 1e-8 class
Frequency Reference Settability Opt 1D	plus or minus 1e-8 class
Resolution Bandwidth Class	1 kHz to 5 MHz class ESA-derived architecture
Input Attenuator Range Class	0 to 60 dB in 5 dB steps class family
Maximum Safe Input Class	plus 30 dBm with adequate attenuation class
Dc Coupled Low Frequency Extension Available	UKB path to 30 Hz characteristic on applicable models
Ac Coupled Minimum Class On Microwave Models	100 kHz characteristic
Tracking Generator Available	1DN class family option
High Stability Timebase Available	1D5 class family option
Dc Coupled Range With Ukb	30 Hz to 13.2 GHz characteristic
Ac Coupled Range	100 kHz to 13.2 GHz characteristic
Band 0 Coverage	9 kHz to 3.0 GHz
Band 1 Coverage	2.85 GHz to 6.7 GHz
Band 2 Coverage	6.2 GHz to 13.2 GHz LO harmonic N=2
Frequency Extension Assembly	standard on E7404A
Operating Temperature Spec Condition	0 C to plus 55 C OEM warranty window
Warmup Align Class	Align Now RF within 24 hour period after 5 minute warm-up class
Remote Interface Class	GPIB standard; RS-232 alternate interface available
Display Log Scale Class	0.1 to 20 dB per division class family table
Calibrated Display Range Class	0 to -85 dB from reference level class family

PARAMETER	VALUE
Form Factor	portable benchtop EMC analyzer
Family Series	E7400A EMC analyzers
Measurement Detectors	peak quasi-peak and average class
Documentation Scope	OEM E7400 A-series numeric tables
Bandwidth	Class: 1 kHz to 5 MHz class ESA-derived architecture
Attenuation	class
Operating temperature	Spec Condition: 0 C to plus 55 C OEM warranty window

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Condition: 0 C to plus 55 C OEM warranty window
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Warmup Align Class	Align Now RF within 24 hour period after 5 minute warm-up class
Remote Interface Class	GPIB standard; RS-232 alternate interface available
Display Log Scale Class	0.1 to 20 dB per division class family table
Calibrated Display Range Class	0 to -85 dB from reference level class family
Form Factor	portable benchtop EMC analyzer
Family Series	E7400A EMC analyzers
Measurement Detectors	peak quasi-peak and average class
Documentation Scope	OEM E7400 A-series numeric tables Notes From Agilent E7400 A-series EMC Analyzers data sheet tables for E7404A. DANL and phase-noise warrants are frequency-, attenuator-, and preamp-dependent; cite the full sheet for amplitude accuracy.

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	
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Instrument Type	EMC spectrum analyzer
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Frequency Reference Aging Opt 1D5	plus or minus 1e-7 per year class
Frequency Reference Temperature Stability Opt 1D5	plus or minus 1e-8 class
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Resolution Bandwidth Class	1 kHz to 5 MHz class ESA-derived architecture
Input Attenuator Range Class	0 to 60 dB in 5 dB steps class family
Maximum Safe Input Class	plus 30 dBm with adequate attenuation class
Dc Coupled Low Frequency Extension Available	UKB path to 30 Hz characteristic on applicable models
Ac Coupled Minimum Class On Microwave Models	100 kHz characteristic
Tracking Generator Available	1DN class family option
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PARAMETER	VALUE
Form Factor	portable benchtop EMC analyzer
Family Series	E7400A EMC analyzers
Measurement Detectors	peak quasi-peak and average class
Documentation Scope	OEM E7400 A-series numeric tables

Notes

From Agilent E7400 A-series EMC Analyzers data sheet tables for E7404A. DANL and phase-noise warrants are frequency-, attenuator-, and preamp-dependent; cite the full sheet for amplitude accuracy.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.