

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E7403A EMC Analyzer, 30 Hz to 6.7 GHz

The Agilent E7403A 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 E7403A and higher 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
E7403A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E7403A

LISTING

<https://aumictechlabs.com/products/e7403a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E7403A is a portable EMC analyzer engineered for electromagnetic compatibility testing across 30 Hz to 6.7 GHz. It delivers pre-compliance EMI testing, radiated and conducted emissions measurement, and full spectrum analysis with peak, quasi-peak, and average detection modes. The instrument stores up to 2000 signals with amplitude data, displays

dual limit lines with margins, and applies corrections for antennas, cables, and amplifiers. A built-in 20 dB preamplifier extends low-level measurement capability, while optional tracking generator support (up to 3 GHz) enables stimulus-response analysis.

Technical Specifications

Frequency Range: 30 Hz to 6.7 GHz **Resolution Bandwidth:** 10 Hz to 3 MHz (–3 dB); 1 Hz and 3 Hz RBW available with preamplifier enabled; 1 Hz to 300 Hz available in spans $\leq$ 5 MHz **Video Bandwidth:** 30 Hz to 3 MHz **Input Impedance:** 50 Ω **Input Coupling:** AC coupling (100 kHz to 6.7 GHz); DC coupling (9 kHz to 6.7 GHz) **Measurement Detectors:** Peak, quasi-peak, and average **Signal Storage Capacity:** Up to 2000 signals with peak, quasi-peak, and average amplitudes

Preamplifier: Built-in with nominal 20 dB gain **Display Scale (Log):** 0.1, 0.2, 0.5 dB/division and 1 to 20 dB/division in 1 dB steps; ten divisions displayed **Display Scale (Linear):** Ten divisions; amplitude in dBm, dBmV, dB μ V, dB μ A, Amps, Volts, or Watts **Marker Resolution:** Log scale 0 to –85 dB at 0.04 dB; linear scale 0.01% of reference level **Warm-up Time:** 5 minutes **Operating Temperature:** 0 °C to +55 °C **Storage:** Built-in 3.5-inch disk drive

Key Features

Large, crisp color display for waveform visualization Logarithmic sweep functionality for efficient frequency coverage Dual limit line display with margin calculation Automated, preprogrammed measurement sequences Preselector center and adjustment functions Standard GPIB and parallel port interfaces

Typical Applications

Pre-compliance EMI testing Radiated emissions characterization Conducted emissions measurement System diagnostics and problem isolation Full spectrum analysis across microwave bands

Compatibility & Integration

Compatible with BenchLink Web Remote software Optional tracking generator available up to 3 GHz

E7403A Characteristics / Specifications

PARAMETER	VALUE
Model	E7403A
Instrument Type	EMC spectrum analyzer
Frequency Range 50 Ohm	9 kHz to 6.7 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 6.7 GHz characteristic
Ac Coupled Range	100 kHz to 6.7 GHz characteristic
Band 0 Coverage	9 kHz to 3.0 GHz
Band 1 Coverage	2.85 GHz to 6.7 GHz
Frequency Extension Assembly	standard on E7403A and higher
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	GPIO 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

PARAMETER	VALUE
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
Operating Temperature	Spec Condition: 0 C to plus 55 C OEM warranty window
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
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 E7403A. 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	
Specifications	
PARAMETER	VALUE
Model	E7403A
Instrument Type	EMC spectrum analyzer
Frequency Range 50 Ohm	9 kHz to 6.7 GHz
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
Frequency Reference Settability Opt 1D5	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 6.7 GHz characteristic
Ac Coupled Range	100 kHz to 6.7 GHz characteristic
Band 0 Coverage	9 kHz to 3.0 GHz
Band 1 Coverage	2.85 GHz to 6.7 GHz
Frequency Extension Assembly	standard on E7403A and higher
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	GPIO 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

PARAMETER	VALUE
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 E7403A. 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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