

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E7405A

The Keysight (Agilent/HP) E7405A is a rugged, portable EMC standard analyzer operating from 9 kHz to 26.5 GHz. Based on the robust ESA-E series spectrum analyzer platform, it provides the essential capabilities needed for in-house EMI precompliance testing and diagnostic evaluation. The E7405A features built-in CISPR bandwidths and detectors, a standard built-in preamplifier, and log sweep functions to streamline emissions testing. It is designed to work seamlessly with broadband antennas, LISNs, absorbing clamps, and close field probes (such as the 11940A and 11941A), and can operate independently or as part of the Keysight 84115EM precompliance system.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488), RS-232, Parallel (Centronics), VGA
Warm-up Time	5 minutes
Calibration Cycle	1 year
Data Storage	3.5-inch 1.44 MB floppy disk drive

Physical

Power Supply	90 to 132 Vrms (47 to 440 Hz) / 195 to 250 Vrms (47 to 66 Hz); < 300 W max power consumption
Dimensions (W×H×D)	416 × 222 × 409 mm mm
Weight	17.1 kg kg

Frequency Specifications

Frequency Range	9 kHz to 26.5 GHz
Resolution Bandwidth (RBW) Range	1 Hz to 5 MHz

Amplitude Specifications

Measurement Range	Displayed Average Noise Level (DANL) to +30 dBm
Maximum Safe Input Power	+30 dBm (1 W) continuous

EMI/EMC Specific Features

EMI Detectors	Peak, Quasi-Peak, Average
CISPR Resolution Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz
Amplitude Correction Factors	Supported
Compatible Precompliance System	Keysight 84115EM
Compatible Close Field Probes	Keysight 11940A, 11941A
Antenna & Transducer Support	Broadband antennas, LISN devices, absorbing clamps

Options & Configurations

Internal Preamplifier	Built-in
Tracking Generator	Optional

Inputs and Outputs

RF Input Impedance	50 Ω
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RF Input

Input Attenuator Range	0 to 65 dB, in 5 dB steps
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Performance

Video Bandwidth (VBW)	1 Hz to 3 MHz
Sweep Time (Zero Span)	50 μs to 4000 s
Reference Frequency Aging Rate	± 2 × 10 ⁻⁶ / year (Standard); ± 1 × 10 ⁻⁷ / year (Option 1D5)
Audio Demodulation	AM / FM

Environmental

Storage Temperature	-40 °C to +75 °C
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Power

Power Consumption	< 300 W
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TECHNOLOGY

Spectrum Analysis

APPLICATIONS

EMI/EMC Precompliance Testing

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