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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3746A

HP Agilent 3746A Selective Level Measuring Set 50 Hz to 32 MHz The HP 3746A is a selective level measuring set with a built-in synthesizer providing 1 Hz resolution across 50 Hz to 32 MHz. OEM 3746A product data describe fast accurate selective-level measurements with tuning by single-frequency entry, stepping between frequency limits, stepping through unrelated frequencies, or FDM plan description. FDM group and channel level measurements, selective level surveys from 50 Hz to 32 MHz, and synthesized tuning in analog transmission systems. The HP 3746A is a selective level measuring set with a built-in synthesizer providing 1 Hz resolution across 50 Hz to 32 MHz. OEM 3746A product data describe fast accurate selective-level measurements with tuning by single-frequency entry, stepping between frequency limits, stepping through unrelated frequencies, or FDM plan description. FDM group and channel level measurements, selective level surveys from 50 Hz to 32 MHz, and synthesized tuning in analog transmission systems. Built-in synthesizer with 1 Hz resolution



MODEL

**Agilent / Keysight
3746A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3746A

LISTING

<https://aumictechlabs.com/products/3746a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 3746A is a Selective Level Measuring Set engineered for precise signal analysis across low-frequency telecommunications and electronics testing applications. Built-in synthesizer technology delivers high tuning accuracy with 1 Hz resolution, enabling fast and accurate selective level measurements across its operational bandwidth. Technical Specifications

Frequency Range: 50 Hz to 32 MHz Frequency Resolution: 1 Hz Tuning Accuracy: High (synthesizer-based) Tuning Modes: Single frequency entry, frequency limit stepping, discrete frequency sets, and FDM plan-based tuning Key Features Built-in synthesizer provides high-accuracy frequency selection and tuning across the 50 Hz to 32 MHz band Multiple tuning methods accommodate manual entry, automated stepping protocols, and frequency division multiplexing applications Fast measurement cycles optimize throughput in production and laboratory environments 1 Hz frequency resolution enables precise signal characterization Typical Applications Telecommunications equipment validation and acceptance testing Component and system characterization during electronics development Signal analysis and level measurement in R&D laboratory environments Compatibility & Integration The 3746A supports GPIB (IEEE-488) interface for remote instrument control and automated data acquisition in test systems. Product Status: Obsolete per Keysight classification.

Features & description

From manufacturer datasheet

Built-in synthesizer with 1 Hz resolution

FDM plan description tuning Step between limits or throughafrequency set Selective level measurements 50 Hz to 32 MHz coverage Technical Specifications Model: 3746A Instrument Type: selective level measuring set Frequency Range: 50 Hz to 32 MHz Frequency Resolution: 1 Hz Tuning Method Single: enterasingle frequency Tuning Method Limits: step between frequency limits Tuning Method List: step throughaset of unrelated frequencies Tuning Method Fdm: FDM plan description Synthesizer: built-in Measurement Type: selective level Manufacturer: HP Agilent Keysight Mechanical Package: benchtop selective level meter Use Case: analog FDM transmission testing Minimum Frequency: 50 Hz Maximum Frequency: 32 MHz Tuning Accuracy Class: high tuning accuracy from built-in synthesizer Display Class: selective level readout Remote Class: programmable SLMS class Operating Mode: selective voltage/level Application Class: FDM group and channel Frequency Entry: numeric synthesizer entry Step Tuning: yes Plan Tuning: FDM Bandwidth Class: selective IF bandwidths per 3746A data sheet Level Accuracy Class: specified on 3746A data sheet matching serial Input Class: transmission measuring set input Notes From HP/Agilent 3746A Selective Level Measuring Set product description (50 Hz to 32 MHz, 1 Hz resolution, synthesizer tuning modes). Full level-accuracy and IF-bandwidth tables are on the 3746A data sheet matching the serial.

3746A Characteristics / Specifications

PARAMETER	VALUE
Model	3746A
Instrument Type	selective level measuring set
Frequency Range	50 Hz to 32 MHz
Frequency Resolution	1 Hz
Tuning Method Single	enterasingle frequency
Tuning Method Limits	step between frequency limits
Tuning Method List	step throughaset of unrelated frequencies
Tuning Method Fdm	FDM plan description
Synthesizer	built-in
Measurement Type	selective level
Manufacturer	HP Agilent Keysight
Mechanical Package	benchtop selective level meter
Use Case	analog FDM transmission testing
Minimum Frequency	50 Hz
Maximum Frequency	32 MHz
Tuning Accuracy Class	high tuning accuracy from built-in synthesizer
Display Class	selective level readout
Remote Class	programmable SLMS class
Operating Mode	selective voltage/level
Application Class	FDM group and channel
Frequency Entry	numeric synthesizer entry
Step Tuning	yes
Plan Tuning	FDM
Bandwidth Class	selective IF bandwidths per 3746A data sheet
Level Accuracy Class	specified on 3746A data sheet matching serial

PARAMETER	VALUE
Input Class	transmission measuring set input
Bandwidth	Class: selective IF bandwidths per 3746A data sheet

3746A Specifications

PARAMETER	VALUE
Key Features	Built-in synthesizer with 1 Hz resolution
Selective level measurements	50 Hz to 32 MHz coverage
Technical Specifications	Model: 3746A

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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Notes

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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.