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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8140A " Digital Transmission Analyzer

HP Agilent 8140A High Performance Pulse Generator The HP 8140A is a high-performance programmable pulse generator in the HP 81xx pulse family, providing variable timing parameters, clean edges, and HP-IB control for automated digital and analog stimulus work. General-purpose pulse stimulus, device characterization, trigger generation, and automated test systems requiring programmable period, delay, and width. Complementary or single-ended output modes class family The HP 8140A is a high-performance programmable pulse generator in the HP 81xx pulse family, providing variable timing parameters, clean edges, and HP-IB control for automated digital and analog stimulus work. General-purpose pulse stimulus, device characterization, trigger generation, and automated test systems requiring programmable period, delay, and width. Complementary or single-ended output modes class family Instrument Type: High performance pulse generator



MODEL

**Agilent / Keysight
8140A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8140A

LISTING

<https://aumictechlabs.com/products/8140a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8140A is an optical loss test set and power meter designed for optical signal measurement and characterization in transmission testing environments. Originally developed for precision optical power analysis, this instrument operates as a specialized measurement tool

within Keysight's optical test portfolio. Now obsolete, the 8140A represents an earlier generation of optical metrology equipment. Technical Specifications Classified as an optical loss test set/power meter, the 8140A provides optical power measurement capabilities. The instrument's design reflects optical test and measurement principles consistent with contemporaneous Keysight optical instrumentation. Key Features Optical power measurement functionality Designed for optical loss characterization Integration within broader optical test systems Programmable operation for automated test sequences Typical Applications The 8140A serves optical fiber and component testing environments requiring power level verification and loss measurement across optical transmission links. Applications include fiber optic system validation, component insertion loss analysis, and optical signal path characterization. Compatibility & Integration As an obsolete instrument, modern integration presents significant challenges. Contemporary Keysight optical test equipment - including tunable laser sources and signal analyzers - represents current alternatives. The instrument's interconnection capabilities and control protocols reflect standards from its original production era. Direct compatibility with current automated test frameworks requires assessment of legacy interface requirements and available integration methods. Procurement of functional 8140A units is limited due to obsolescence. Organizations requiring optical loss and power measurement should evaluate current Keysight optical test solutions for equivalent or superior measurement capabilities.

8140A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	High performance pulse generator
Period Programming	Supported
Delay Programming	Supported
Width Programming	Supported
Duty Cycle Programming	Supported within timing limits
Output Impedance	50 Ohm
Remote Interface	HP-IB
Operating Modes	Continuous trigger gate burst class
External Trigger Input	Supported
Trigger Output	Supported
Store Recall	Supported class
Amplitude Programming into 50 Ohm	Supported
Transition Control	Variable edges class family
Series Family	HP 81xx pulse generators
Form Factor	Bench programmable instrument
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Channel Count Class	Single channel with complementary capability class sheet
Double Pulse Capability	Supported class family
Level High Low Programming	Supported
Timing Accuracy Class	percent-of-setting class OEM sheet
Preshoot Overshoot Control	Specified on OEM sheet
Frequency Coverage Class	multi-MHz pulse rates class family
Operating temperature	Class: 0 C to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C
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Level High Low Programming	Supported
Timing Accuracy Class	percent-of-setting class OEM sheet
Preshoot Overshoot Control	Specified on OEM sheet
Frequency Coverage Class	multi-MHz pulse rates class family Notes From HP/Agilent 8140A pulse generator product literature. Use the OEM timing and amplitude tables for the specific serial number and option set; faceplate limits remain authoritative.

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.

Performance Pulse Generator

Overview

The HP 8140A is a high-performance programmable pulse generator in the HP 81xx pulse family, providing variable timing parameters, clean edges, and HP-IB control for automated digital and analog stimulus work.

Applications

General-purpose pulse stimulus, device characterization, trigger generation, and automated test systems requiring programmable period, delay, and width.

Key Features

- Programmable period delay and width
- Clean variable transitions
- HP-IB remote control
- Store and recall setups
- Complementary or single-ended output modes class family

Technical Specifications

Technical Specifications

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Instrument Type	High performance pulse generator
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PARAMETER	VALUE
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Timing Accuracy Class	percent-of-setting class OEM sheet
Preshoot Overshoot Control	Specified on OEM sheet
Frequency Coverage Class	multi-MHz pulse rates class family

Notes

From HP/Agilent 8140A pulse generator product literature. Use the OEM timing and amplitude tables for the specific serial number and option set; faceplate limits remain authoritative.

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.