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Data Sheet

August 13, 2026

JDS UNIPHASE/JDSU

JDS Uniphase JDSU HA9 / HA1 Programmable Attenuator

The JDS Uniphase/JDSU HA9/HA1 is a programmable attenuator designed for precise control of optical signal levels. It features a wide attenuation range, low insertion loss, and high accuracy, making it suitable for various applications, including optical communication systems, test and measurement setups, and research and development.



MODEL

**JDS
Uniphase/JDSU
HA9/HA1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA9/HA1

LISTING

<https://aumictechlabs.com/products/ha9-ha1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDSU HA9/HA1 Programmable Attenuator series delivers precise optical signal level control for communications, test and measurement, and R&D applications. These units combine wide attenuation range, high accuracy, and low insertion loss to enable critical optical performance evaluation and system calibration. Programmable via GPIB or RS232 with SCPI/HP8156A-compatible commands, the HA9/HA1 supports both local front-panel control and remote operation. Field-proven construction ensures repeatable performance across demanding test environments. Technical Specifications Attenuation Range: Up to 100 dB (60 dB for HA9W, 750–1700 nm) Resolution: HA9 series 0.01 dB; HA1 series 0.001 dB Accuracy: ± 0.1 dB or greater of

± 0.004 dB/dB (1260–1360 nm and 1450–1570 nm); otherwise ± 0.1 dB or ± 0.015 dB/dB
Repeatability: 0.01 dB Wavelength Range: 1200–1700 nm standard; optional 750–1700 nm
Wavelength Dependence: 60 dB Input Power: Up to 1 W (30 dBm) Beam Blocking: Integrated switch provides >90 dB attenuation
Key Features Single-mode (9/125 μ m) and multimode fiber options FC/PC, SC/PC, ST/PC, FC/APC, SC/APC connector adapters Front or rear panel mounted universal connector adapters 5 V driver output for external 1×1 or 1×2 fiberoptic switch control
Low spectral ripple design suitable for CATV AM systems Interfaces & Control GPIB (IEEE 488.2) and RS232 remote control SCPI/HP8156A command compatibility; software compatible with HP 8157A Front panel keyboard for local operation Rear panel 5 V output with front panel toggle for external/internal switch selection
Typical Applications Optical communications system calibration, component performance validation, optical power level adjustment, and research environments requiring high-resolution attenuation control.

Features & description

From manufacturer datasheet

Features

- Attenuation range 100 dB (standard HA9/HA1); HA9W wideband 750-1700 nm at 60 dB
- Resolution 0.01 dB (HA9) or 0.001 dB (HA1)
- Accuracy +/-0.1 dB; repeatability +/-0.01 dB maximum class
- Change rate <=2.5 s for 0 to 100 dB
- SM insertion loss <1.5 dB; PDL 0.03 dB typical / 0.08 dB maximum
- Beam block >90 dB (brochure) / >110 dB (HA9 series user manual tables)
- Beam block speed <20 ms
- Remote GPIB and RS-232; SCPI-compatible command set

Polarization dependent loss: 0.03 dB typical, 0.08 dB maximum

Beam block attenuation: >110 dB (HA9 series manual); >90 dB (family brochure) Beam block speed: <20 ms Input voltage: 90 to 240 V AC, 50 to 60 Hz Power consumption: 80 VA maximum Dimensions (WxHxD): 21.2 × 8.9 × 35.5 cm (2U half-rack) Weight: 4 kg Operating temperature: 0 to 40 C Storage temperature: -40 to 60 C Notes Document covers HA9 and HA1 family rows from JDSU HA Series manuals/brochures. Confirm exact faceplate model (HA9 vs HA1 vs HA9W/HA9P), fiber type, connector code, and return-loss option on the unit.

HA9HA1 Characteristics / Specifications

PARAMETER	VALUE
Model	HA9 / HA1
Manufacturer	JDS Uniphase (JDSU)
Instrument Type	Programmable optical attenuator
Family	HA Series
Alias	HA9; HA1; JDSU HA9; JDSU HA1
Operating wavelength (standard HA9/HA1)	1200 to 1700 nm
Operating wavelength (HA9W option)	750 to 1700 nm
Attenuation range (HA9/HA1)	100 dB
Attenuation range (HA9W)	60 dB
Resolution (HA9)	0.01 dB nominal
Resolution (HA1)	0.001 dB nominal
Repeatability	+/-0.01 dB maximum (+/-0.005 dB typical)
Accuracy	+/-0.1 dB maximum (+/-0.03 dB typical)
Attenuation change rate	<=2.5 s for 0 to 100 dB
Insertion loss SM	1.2 dB typical, 1.5 dB maximum
Insertion loss MM 50/1	<=2.2 dB
Return loss SM	>45 dB; SM analog >60 dB
Maximum optical input power	200 mW
Polarization dependent loss	0.03 dB typical, 0.08 dB maximum
Beam block attenuation	>110 dB (HA9 series manual); >90 dB (family brochure)
Beam block speed	<20 ms
Input voltage	90 to 240 V AC, 50 to 60 Hz
Power consumption	80 VA maximum
Dimensions (WxHxD)	21.2 × 8.9 × 35.5 cm (2U half-rack)
Weight	4 kg

PARAMETER	VALUE
Operating temperature	0 to 40 C
Storage temperature	-40 to 60 C Notes Document covers HA9 and HA1 family rows from JDSU HA Series manuals/brochures. Confirm exact faceplate model (HA9 vs HA1 vs HA9W/HA9P), fiber type, connector code, and return-loss option on the unit.
Attenuation	range over 1200 to 1700 nm (standard). HA9 resolution is 0.01 dB nominal; HA1 is the ultra-high-resolution single-mode variant at 0.001 dB nominal for BER and precision absolute-power control. Built-in beam block, GPIB/RS-232 SCPI control, calibratio
Return loss	SM: >45 dB; SM analog >60 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 60 C
Operating temperature	0 to 40 C
Operating Temperature	0 to 40 C

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	HA9 / HA1
Manufacturer	JDS Uniphase (JDSU)
Instrument Type	Programmable optical attenuator
Family	HA Series
Alias	HA9; HA1; JDSU HA9; JDSU HA1
Operating wavelength (standard HA9/HA1)	1200 to 1700 nm
Operating wavelength (HA9W option)	750 to 1700 nm
Attenuation range (HA9/HA1)	100 dB
Attenuation range (HA9W)	60 dB
Resolution (HA9)	0.01 dB nominal
Resolution (HA1)	0.001 dB nominal
Repeatability	+/-0.01 dB maximum (+/-0.005 dB typical)
Accuracy	+/-0.1 dB maximum (+/-0.03 dB typical)
Attenuation change rate	<=2.5 s for 0 to 100 dB
Insertion loss SM	1.2 dB typical, 1.5 dB maximum
Insertion loss MM 50/125	<=2.2 dB
Return loss SM	>45 dB; SM analog >60 dB
Maximum optical input power	200 mW
Polarization dependent loss	0.03 dB typical, 0.08 dB maximum
Beam block attenuation	>110 dB (HA9 series manual); >90 dB (family brochure)
Beam block speed	<20 ms
Input voltage	90 to 240 V AC, 50 to 60 Hz
Power consumption	80 VA maximum
Dimensions (WxHxD)	21.2 x 8.9 x 35.5 cm (2U half-rack)
Weight	4 kg
Operating temperature	0 to 40 C

PARAMETER	VALUE
Storage temperature	-40 to 60 C

Notes

Document covers HA9 and HA1 family rows from JDSU HA Series manuals/brochures. Confirm exact faceplate model (HA9 vs HA1 vs HA9W/HA9P), fiber type, connector code, and return-loss option on the unit.

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.