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Test & measurement · bought, sold, repaired, calibrated

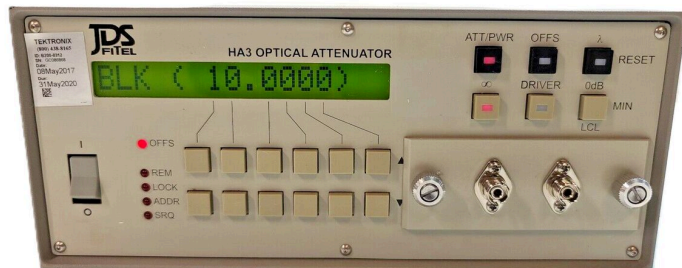
Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase HA3

Remote Interfaces: IEEE 488.1 GPIB and RS232 Port Options: pigtails or panel connectors; FC/PC, FC/APC, SC/PC, SC/APC Related HA1: 100 dB range, 0.001 dB resolution, same wavelength window Optical and environmental rows from the older JDS Fitel HA1/HA3 specification sheet (MKT-DS40T). Confirm faceplate coding (coupler/switch, analog return-loss option, connector) on the unit. Do not copy HA9 100 dB figures onto HA3. JDS Fitel / JDS Uniphase HA3 Programmable Optical Attenuator The JDS Fitel HA3 is the older high-resolution member of the HA1/HA3 programmable optical attenuator family (later JDS Uniphase HA series). It covers 1200 to 1700 nm with a 60 dB attenuation range and 0.0005 dB nominal resolution. Built-in beam block, GPIB/RS232 SCPI (HP 8156A-compatible) control, and half-rack 2U packaging are common to the HA family. LabVIEW drivers document HA1, HA3, HA9, and HA11 together. Power-meter calibration and linearity; absolute optical power control into DUTs; BER setups needing sub-0.001 dB steps; general laboratory VOA on single-mode plant.



MODEL

JDS Uniphase HA3

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA3

LISTING

<https://aumictechlabs.com/products/ha3-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase HA3 is a programmable optical attenuator engineered for precision optical power control across telecommunications and laboratory test environments. It delivers 0 to 60 dB attenuation with 0.0005 dB resolution and ± 0.1 dB accuracy, making it essential for power meter calibration, analog transmission characterization, and bit error rate testing. The device minimizes

optical reflections and cavity effects to ensure measurement integrity across single-mode fiber systems from 1200 to 1700 nm. Technical Specifications Attenuation Range: 0 to 60 dB Attenuation Resolution: 0.0005 dB Attenuation Linearity: ± 0.1 dB Accuracy: ± 0.1 dB Wavelength Range: 1200 to 1700 nm Wavelength Dependence: 90 dB rapid attenuation Linear design with integral calibration and offset functions GPIB and RS232 control with SCPI command compatibility Optional coupler and switch expansion capability Typical Applications Optical power meter linearity calibration Analog transmission test and characterization Bit error rate (BER) measurement Loss simulation in fiber optic link analysis EDFA output power characterization Multichannel AM system evaluation High bit-rate PCM system testing Compatibility & Integration The HA3 integrates with single-mode fiber optic test benches via FC/PC connectors. Control is achieved through GPIB or RS232 interfaces supporting standard SCPI command protocols, enabling integration into automated measurement systems and laboratory instrumentation.

Features & description

From manufacturer datasheet

Features

- Ultra-fine 0.0005 dB nominal resolution (finer than HA9 0.01 dB) • 60 dB continuous attenuation range (wavelength-dependent) • Built-in beam block greater than 110 dB in under 20 ms • Optional 50/50, 10/90, 2/98 coupler or 1×2 switch • Half-rack 2U package compatible with HP 8156A footprint • SCPI / HP 8156A command set on GPIB and RS232

Polarization Dependent Loss: 0.02 dB typical, 0.08 dB maximum

Beam Block Attenuation: >110 dB Beam Block Speed: <20 ms Fiber Type: Siecor 9/125 um single-mode
Recalibration Period: 1 year recommended Input Voltage: 90 to 240 V AC, 50 to 60 Hz Power
Consumption: 80 VA maximum Dimensions: 21.2 × 8.9 × 35.5 cm Height Class: 2U, half rack, HP 8156A
compatible Weight: 4 kg Operating Temperature: 0 to 40 C Storage Temperature: -40 to 60 C Humidity:
95 percent RH up to 40 C, decreasing 5 percent perCfrom 40 to 60 C Remote Interfaces: IEEE 488.1
GPIB and RS232 Command Set: SCPI / HP 8156A compatible Port Options: pigtails or panel connectors;
FC/PC, FC/APC, SC/PC, SC/APC Related HA1: 100 dB range, 0.001 dB resolution, same wavelength
window Notes Optical and environmental rows from the older JDS Fitel HA1/HA3 specification sheet
(MKT-DS4OT). Confirm faceplate coding (coupler/switch, analog return-loss option, connector) on the
unit. Do not copy HA9 100 dB figures onto HA3.

HA3 Characteristics / Specifications

PARAMETER	VALUE
Model	HA3
Manufacturer	JDS Fitel / JDS Uniphase (JDSU)
Instrument Type	Programmable optical attenuator
Family	HA1 / HA3 Series (older JDS Fitel sheet)
Alias	HA3; JDS HA3; JDSU HA3
Operating Wavelength	1200 to 1700 nm
Attenuation Range	60 dB
Resolution	0.0005 dB nominal
Repeatability	+/-0.006 dB
Change Rate	<=2.5 s for 0 to 60 dB
Accuracy	+/-0.1 dB (with calibration-wavelength or user-slope optimization)
Insertion Loss	<2.0 dB (excluding connectors, switch, or coupler)
Return Loss	>60 dB (discrete reflections)
Maximum Optical Input	200 mW
Polarization Dependent Loss	0.02 dB typical, 0.08 dB maximum
Beam Block Attenuation	>110 dB
Beam Block Speed	<20 ms
Fiber Type	Siecor 9/125 um single-mode
Recalibration Period	1 year recommended
Input Voltage	90 to 240 V AC, 50 to 60 Hz
Power Consumption	80 VA maximum
Dimensions	21.2 × 8.9 × 35.5 cm
Height Class	2U, half rack, HP 8156A compatible
Weight	4 kg
Operating Temperature	0 to 40 C

PARAMETER	VALUE
Storage Temperature	-40 to 60 C
Humidity	95 percent RH up to 40 C, decreasing 5 percent perCfrom 40 to 60 C
Remote Interfaces	IEEE 488.1 GPIB and RS232
Command Set	SCPI / HP 8156A compatible
Port Options	pigtails or panel connectors; FC/PC, FC/APC, SC/PC, SC/APC
Related HA	100 dB range, 0.001 dB resolution, same wavelength window
Attenuation	Range: 60 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 60 C
Operating temperature	0 to 40 C
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Humidity	95 percent RH up to 40 C, decreasing 5 percent perCfrom 40 to 60 C
Remote Interfaces	IEEE 488.1 GPIB and RS232
Command Set	SCPI / HP 8156A compatible
Port Options	pigtails or panel connectors; FC/PC, FC/APC, SC/PC, SC/APC
Related HA	100 dB range, 0.001 dB resolution, same wavelength window Notes Optical and environmental rows from the older JDS Fitel HA1/HA3 specification sheet (MKT-DS4OT). Confirm faceplate coding (coupler/switch, analog return-loss option, connector) on the unit. Do not copy HA9 100 dB figures onto HA3.

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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Command Set	SCPI / HP 8156A compatible
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Notes
Optical and environmental rows from the older JDS Fitel HA1/HA3 specification sheet (MKT-DS40T). Confirm faceplate coding (coupler/switch, analog return-loss option, connector) on the unit. Do not copy HA9 100 dB figures onto HA3.

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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Generated August 13, 2026

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