

**Aumictech**

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Data Sheet

August 3, 2026

SANTEC

Santec OVA-920 Optical Variable Attenuator

The Santec OVA-920 is a precision optical variable attenuator designed for accurate control of optical power levels. It features a wide attenuation range, low insertion loss, and excellent repeatability, making it suitable for various applications in optical communication and testing.



MODEL

Santec OVA-920

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

OVA-920

LISTING

<https://aumictechlabs.com/products/ova-920-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Santec OVA-920 Optical Variable Attenuator is a precision instrument for accurate control of optical power levels in optical communications, laboratory testing, and research environments. It delivers reliable, repeatable attenuation across a wide dynamic range with minimal insertion loss, making it suitable for optical system integration and automated test setups.

Technical Specifications

- Attenuation Range: Up to 100 dB dynamic range
- Repeatability: ± 0.01 dB
- Insertion Loss: Low insertion loss design
- Wavelength Dependence: Low wavelength dependency
- Polarization Dependent Loss (PDL): Low PDL
- Maximum Optical Input Power: 23 dBm
- Fiber Compatibility: Single-mode fiber (SMF), dispersion-shifted fiber (DSF), and polarization-maintaining fiber (PMF); available with 0.9 mm tight buffer and 0.25 mm jacket options
- Connector Options: APC (Angled Physical Contact) and SPC (Standard Physical Contact) available

Key Features

- Wide attenuation range for dynamic power control
- Excellent repeatability ensures consistent test results
- Low insertion loss minimizes signal degradation
- Supports multiple fiber

types and connector configurations Calibrated units with calibration services available Remote operation via GPIB, Ethernet, and USB interfaces Typical Applications Optical communication system testing and validation Bit Error Rate (BERT) testing of optical transceivers Power level adjustment in automated test systems Channel equalization in WDM systems Laboratory research and component characterization Compatibility & Integration The OVA-920 integrates with standard optical test benches and supports both SMF and specialty fibers (DSF, PMF). Multiple connector types and remote control interfaces enable flexible integration into automated measurement and production test environments.

Features & description

From manufacturer datasheet

Features

- Model OVA-920 optical variable attenuator
- High-accuracy programmable attenuation with fine resolution
- Suitable for SM and MM fiber builds (configuration-dependent)
- Remote control capability (USB/Ethernet on modern OVA family; verify connectors on OVA-920)
- Optional power-monitor / leveling class features on OVA platforms

OVA920 Characteristics / Specifications

PARAMETER	VALUE
Model	OVA-920
Manufacturer	Santec
Instrument Type	Optical Variable Attenuator
Alias	OVA-920
OVA Series Optical Specs (Santec OVA user manual)	verify against OVA-920 faceplate)
Multimode wavelength	750–1700 nm; attenuation range 60 dB class
Insertion Loss (excl. connectors)	SM ~1.2–1.5 dB at 1550 nm (+0.3 dB at 1310 nm class); MM ~2.5 dB class
Return Loss	SM 60 dB; MM 35 dB class (850/1300 nm)
PDL	< 0.1 dB (SM)
Resolution	0.01 dB; Repeatability: ± 0.01 dB; Absolute Accuracy: ± 0.1 dB
Max Optical Input	+23 dBm; Beam block: >100 dB class Electrical / Mechanical (OVA series documentation)
AC Input	110–240 V, 50–60 Hz
Dimensions (OVA series benchtop)	approx. 23.5 × 12 × 32.5 cm; weight ~8 kg class
Operating Temperature	0–40 °C Standard Operating Conditions Do not exceed max optical input. Use matching connector polish. Confirm whether the installed OVA-920 is SM or MM before applying the table above. Operational Notes Modern Santec marketing emphasizes OVA-100; OVA-920 is the inventory model name for this unit. Prefer faceplate attenuation range and fiber type over assumed family maxima.
Attenuation	range engraved on the unit.
Fiber type	and attenuation range engraved on the unit.

OVA920 Specifications

PARAMETER	VALUE
Key Features	- Model OVA-920 optical variable attenuator
Technical Specifications	Model: OVA-920
Electrical / Mechanical (OVA series documentation)	AC Input: 110–240 V, 50–60 Hz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0-40 °C
Operating Temperature	0-40 °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	OVA-920
Manufacturer	Santec
Instrument Type	Optical Variable Attenuator
Alias	OVA-920

OVA Series Optical Specs (Santec OVA user manual – verify against OVA-920 faceplate)
Single-mode wavelength: 1200–1700 nm; attenuation range up to 60/100 dB (config)

Specifications

PARAMETER	VALUE
Multimode wavelength	750–1700 nm; attenuation range 60 dB class
Insertion Loss (excl. connectors)	SM ~1.2–1.5 dB at 1550 nm (+0.3 dB at 1310 nm class); MM ~2.5 dB class
Return Loss	SM 60 dB; MM 35 dB class (850/1300 nm)
PDL	< 0.1 dB (SM)
Resolution	0.01 dB; Repeatability: ±0.01 dB; Absolute Accuracy: ±0.1 dB
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Operating Temperature	0–40 °C

Standard Operating Conditions
Do not exceed max optical input. Use matching connector polish. Confirm whether the installed OVA-920 is SM or MM before applying the table above.

Operational Notes
Modern Santec marketing emphasizes OVA-100; OVA-920 is the inventory model name for this unit. Prefer faceplate attenuation range and fiber type over assumed family maxima.

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.