

## Test and Inspection



### Applications

- BER testing
- System tolerance to signal attenuation
- New equipment turn-ups
- Low cost lab attenuator

## NOYES® SVA1 Single-mode Variable Attenuator

The SVA1 Single-mode Variable Attenuator advances fiber optic field testing by offering superior performance in a low cost hand-held package. Utilizing a simplified, industry accepted attenuation technique; the innovative design of the SVA1 offers superior resolution across the entire 60 dB dynamic range.

Intended for field testing during installation, new equipment turn-ups, or routine maintenance, the SVA1 is a complete, easy to use attenuator. Its unique features allow bidirectional signal transmission with no loss penalty.

Never be caught with low or discharged batteries. The mechanical design of the SVA1 uses no batteries - it is always ready when you need it.

Input/output ports of the SVA1 are equipped with tool-free removable adapters to allow the output connectors to be inspected and cleaned.

The SVA1 is available with a variety of connectors and reflectance options to better than 60 dB. With only two adjustments, COARSE and FINE, the SVA 1 is simple to understand and operate. The SVA1 is suited for all single-mode applications including Telco, LANs, WANs, Video, and CATV.

### Features

- Single-mode attenuator for a wide range of wavelengths
- Lightweight, robust, designed for field applications
- 60 dB dynamic range
- Coarse and fine adjustments
- Low insertion loss
- Swappable (FC, ST, SC, LC) adapters remove for cleaning

### Specifications <sup>a</sup>

OPTICAL SPECIFICATIONS	SVA 1
Wavelengths	1310 nm & 1550 nm ±30 nm
Insertion Loss	≤1.5 dB @ 1310 nm
Minimum Attenuation	60 dB
Return Loss	50 dB (≥60 dB optional - angled FC)
Coarse Adjustment	0 to 60 dB nominal
Fine Adjustment	0 to 10 dB nominal
Connector	FC, ST, SC
GENERAL SPECIFICATIONS	
Operating Temperature	-10 °C to +55 °C
Storage Temperature	-30 °C to 60 °C
Size (H x W x D)	14 x 7 x 3.8 cm (5.5 x 2.75 x 1.5 in)
Weight	168 g (6 oz)

### Note:

- a. All specifications valid at 25 °C unless otherwise specified.

