



Ascentac TestMate2300 Series, Variable Optical Attenuator, delivers high-precision attenuation across a wide wavelength range with low insertion loss. Its three modes—Open-Loop, Closed-Loop, and Power Monitoring—are ideal for optical power calibration and receiver sensitivity testing.

Flexible control is provided via the intuitive front panel or remotely through standard Ethernet (LAN) and RS232 interfaces, enabling seamless integration into any automated test environment.

Variable Optical Attenuator

Ascentac TestMate2300

Desk-top 1 to 4 Channel VOA: Delivering Exceptional Resolution, Accuracy & Stability

Feature

- Attenuation mode: open-loop, closed-loop, and power monitoring
- Attenuation range: 0 to 40 dB
- Insertion loss < 2.2 dB
- Low-brightness, eye-comfort display for extended use
- Space-saving design for vertical or horizontal placement
- Supports remote control via Ethernet port
- USB Type-C charging

Application

- Bit Error Rate (BER) testing
- Optical power meter calibration & verification
- Optical receiver sensitivity measurement

Description

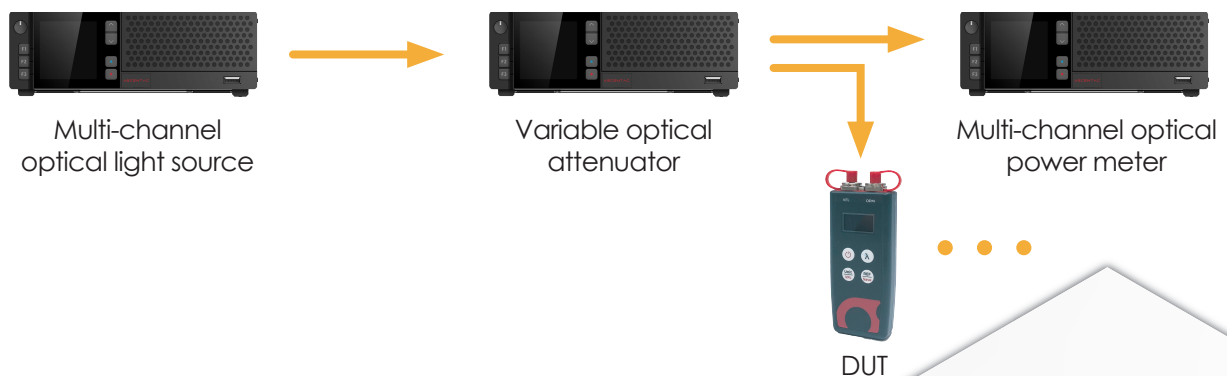
Its compact, dual-orientation design maximizes valuable desk space. A clean, intuitive user interface streamlines the entire workflow, making even complex testing straightforward and efficient.

Vertical or Horizontal. Always Compact.



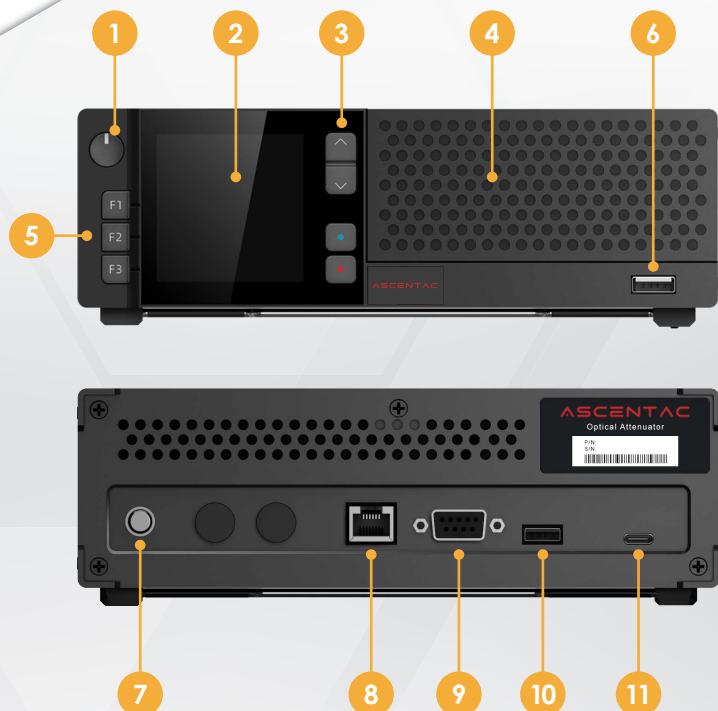
Streamline Your Calibration Process

Connect optical light source, variable optical attenuator, optical power meter and DUT to calibrate optical power, correcting for attenuation error.



Appearance

- 1 Power switch
- 2 2.7-inch color screen
- 3 Control knob
- 4 Dust cap for optical interface
- 5 Function keys
- 6 USB-A port
- 7 Grounding terminal
- 8 Ethernet port
- 9 RS232 port
- 10 USB-A port
- 11 USB Type-C charging port



Specification

VOA				
Channels	1、2 or 4			
Attenuation Range (dB)	0 to 40			
Maximum Attenuation (dB)	45			
Fiber Type	SM (9/125um)			MM (50/125um)
Operating Wavelength (nm)	1270、1290、1310、1330、1490、1550			850 ± 20
Operating Mode	Open-Loop	Power Monitoring	Closed-Loop	Open-Loop
Repeatability (dB)	± 0.05 @ 0 to 30 ± 0.1 @ 30 to 40	± 0.05	± 0.05	± 0.1
Accuracy (dB)	± 0.10 @ 0 to 10 ± 0.15 @ 10 to 20 ± 0.40 @ 20 to 40	± 0.05	± 0.05	± 0.1
Adjustment Speed (ms)	< 20	< 300	< 300	< 1300
Polarization Dependent Loss (PDL) (dB)	< 0.15 @ 0 to 20 < 0.5 @ 20 to 40	< 0.15	< 0.15	< 0.3
Insertion Loss (IL) (dB)	< 1.2 without connector < 2.2 with connector			< 0.5 without connector < 1.0 with connector
Return Loss (dB)	> 45			> 35
Resolution (dB)	0.01			0.1
Maximum Input Power (dBm)	+23			+20
Power Detection Range (dBm)	+18 to -60			N/A
Optical Connector Type	FC/PC、FC/APC、SC/PC、SC/APC			

Display

2.7-inch color display
Resolution: 320 x 320 pixels

Interface

1. 2 USB-A ports
2. USB-C charging port
3. Ethernet port (RJ45)
4. RS232 port
5. Grounding terminal

Environment

Working Temperature (°C)	0 to 40
Storage Temperature (°C)	-20 to 70
Relative Humidity (%)	< 90, Non-condensing

Dimension and Weight

L x W x H (mm)	215 x 210 x 65
Weight (g)	1000

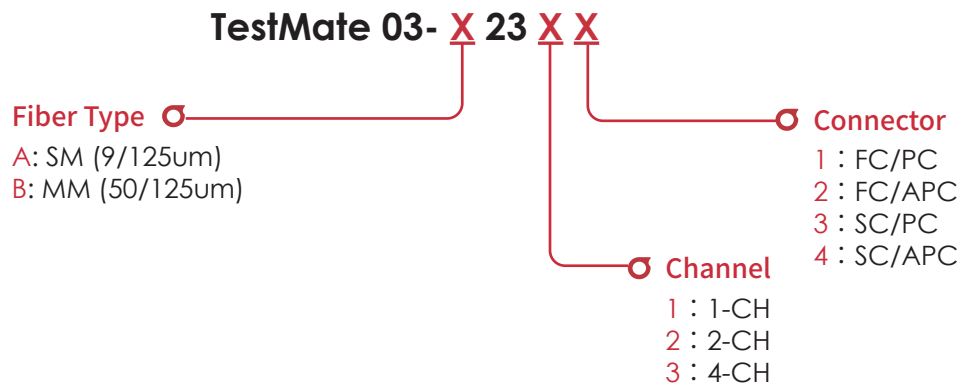
Standard Accessories

Main unit, Power adapter
USB power cable, 1-year warranty

Note:

1. At an ambient temperature of $23 \pm 2^{\circ}\text{C}$.
2. Measured with G.652 Single-Mode (SM) 9/125 μm or Multi-Mode (MM) 50/125 μm fiber with PC polished connectors.
3. With a -20 dBm Continuous Wave (CW) input at 850 nm or 1550 nm, and a spectral width of < 10 nm.
4. Recommended calibration interval: 1 year.

Ordering Information



Example : TestMate 03-A2332

