Ascentac
Variable Optical Attenuator
Ascentac TestMate1300

1U Rackmount 4 or 8 Ports Variable Optical Attenuator with High Resolution, High Accuracy & High Stability

Ascentac TestMate1300 Series, Variable Optical Attenuator, is an online attenuation amount adjustment device used to control the optical power in a fiber. It enables precise optical power control featuring low insertion loss, low Polarization Dependent Loss (PDL) and low Wavelength Dependent Loss (WDL).

Ascentac TestMate1300 Series has Ethernet RJ45, RS232 and USB interface. With the Ethernet interface, the variable optical attenuator can be controlled remotely over the network. This variable optical attenuator also provides dual power supplies (AC & DC) to achieve power redundancy.

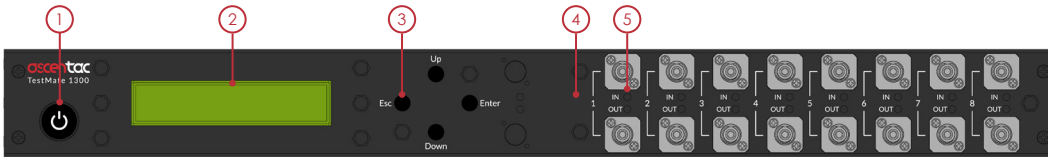The 1U-high chassis design is convenient for mounting in a standard-sized, 19''-wide rack.

Benefits

- Single mode and multi mode available
- Low PDL ≤ 0.05dB
- Low WDL ≤ 0.25dB
- High resolution 0.01dB
- RJ45, RS-232 & USB interface

Application

- Bit error rate test
- Calibration and verification of optical power meter
- Optical receiver sensitivity measurement

Description

① Power status with LED indicator
  Touch protector design to prevent unintended or accidental touch (Press power button for 2 seconds to turn on/off the power)

② Easy-to-read LCD display (IP address, current channel and related information)

③ Intuitive key for easy use
  ・ Up: Up or increment
  ・ Down: Down or decrement
  ・ Enter: Confirm
  ・ Esc: Exit or cancel

④ Optical interface
  ・ IN：Input port (4 or 8-Channel, option)
  ・ OUT：Output port (4 or 8-Channel, option)

⑤ Optical light path indicator
  ・ Green light: Current channel
  ・ Red light: Warning of abnormal status for current channel

⑥ Dual power, 1+1 redundant power
  ・ AC power supply: 100 to 240V (50/60Hz)
  ・ DC power supply: 36 to 72V

⑦ Fuse with UL Standard for safety

⑧ Ethernet RJ45 ,RS232 and USB interface

1U Managed Rackmount Design with High Flexibility

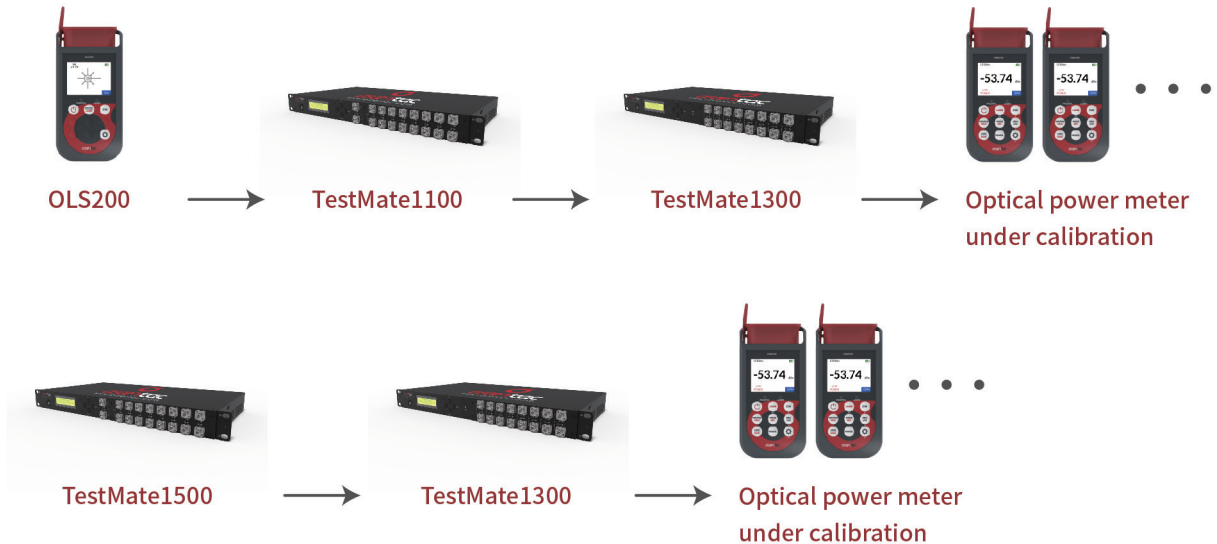Ascentac TestMate1300 Series can be mounted in a standard-sized, 19"-wide rack.
Width x Height x Depth： 438 x 44.4 x 238.2 mm

Flexible mounting bracket for easy installation in a rack

238.2 mm

44.4 mm

438 mm

Easy to Complete the Optical Power Meter Calibration & Verification Test

Using patch cords to connect source, optical switch, VOA and OPM under calibration to calibrate the optical power

OLS200 → TestMate1100 → TestMate1300 → Optical power meter under calibration

TestMate1500 → TestMate1300 → Optical power meter under calibration

Specification

VOA			
Channel	4 or 8		
Fiber Type	MM (62.5/125 μm)	MM (50/125 μm)	SM (9/125 μm)
Wavelength Range (nm)	850 to 1300	850 to 1300	1260 to 1650
Calibrated Wavelength (nm)	850 / 1300	850 / 1300	1270 / 1310 / 1490 / 1550 / 1625
Insertion Loss (dB)	≤ 0.7	≤ 0.7	≤ 1.5
Attenuation Range (dB)	0 to 40 or 0 to 60		
Input Power Range (dBm)	+26 to -50		
Accuracy (dB)	≤ ±0.2 (0 to -30) ≤ ±0.5 (-30 to -60)		
Resolution (dB)	0.01		
Return Loss (dB)	≥ 50		
Wavelength Dependent Loss (WDL) (dB)	≤ 0.25		
Polarization Dependent Loss (PDL) (dB)	≤ 0.05		
Connector Type	FC/PC or FC/APC		
Standard Accessories	Main unit, USB to USB cable, Power cord, Rack mounting ears with screws, One-year warranty		

Ordering Information

TestMate 03 - X 13 X X

Fiber Type & Attenuation Range
A : SM (9/125 um), 40dB
B: SM (9/125 um), 60dB
C: MM (62.5/125 μm), 40dB
D: MM (62.5/125 μm), 60dB
E: MM (50/125 μm), 40dB
F: MM (50/125 μm), 60dB

Connector Type
1 : FC / PC
2 : FC / APC

Channel
1 : 4-CH
2 : 8-CH

Example : TestMate 03-A1311