



OPTICAL ATTENUATOR VARIABLE LC-OAt-Var

Optical Attenuator Variable LC-OAt-Var

1. LC-OAt-Var Description

DWDM.ME's LC-OAt-Var is a general-purpose adjustable optical attenuator developed according to the actual work of optical communication equipment development and engineering application. It has the characteristics of small size, light weight, low power consumption and high cost performance. It is an essential tool for the measurement of optoelectronic devices, optical passive devices, optical fibers, optical cables, and optical fiber communication equipment, as well as the engineering construction and maintenance of optical fiber communication systems.

DWDM.ME's LC-OAt-Var is an online attenuation adjustment device. It is suitable for the optical power situation that needs to be strictly controlled in the network, and is supplemented by software as the control unit. The whole machine has high reliability, excellent performance and wide use, which greatly facilitates customers. The instrument has high attenuation precision, stable and reliable.

2. Features

- Intelligent and universal, it can directly display the dB value of attenuated optical power.
- Small insertion loss, high attenuation value accuracy, and large variable attenuation range, truly achieving precision, accuracy, stability, reliability, ease of use and durability;
- Good attenuation linearity and repeatability
- Real-time monitoring of input and output power
- High-definition touch display LCD screen, easy to operate

3. Application

- Simulation, measurement, adjustment and evaluation of fiber optic systems in place of different fiber optic cables or fibers;

- Optical fiber communication construction, operation and routine maintenance;
- Optical fiber computer network, optical fiber CATV network;
- Direct detection of light source and optical transceiver;
- Test system for composing optical fibers and various optical devices, etc.

4. Product reference picture

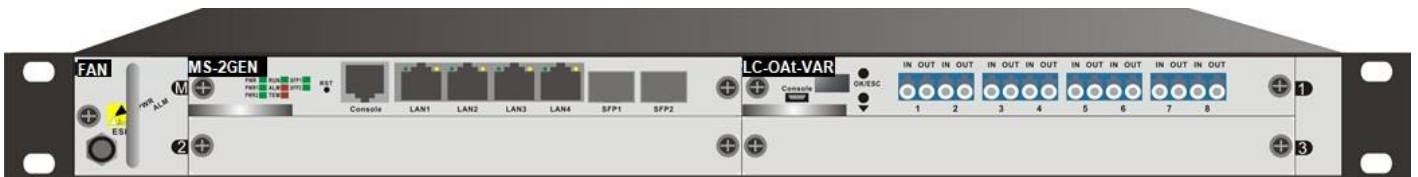


5. Product Specifications

Number of channels	2, 4, 6, 8 optional
Attenuation range	0 ~ -35dB
Accuracy	$\leq \pm 0.3$ dB
Working wavelength	1270~1610nm
Calibration wavelength	1310nm, 1550nm
Resolution	Continuous
Insertion loss	≤ 1.2
Polarization dependent loss	≤ 0.1 @ 0dB , ≤ 0.5 @20dB
wavelength dependent loss	≤ 0.3 @ 0dB , ≤ 1.5 @20dB
Temperature dependent losses (compared to room temperature)	≤ 0.7 @ 0dB , ≤ 1.0 @20dB
return loss	≥ 45
Working power	AC: 85 ~ 264V, 50 ~ 60Hz
Fiber Type	single mode fiber 9/125 μ m or other
Optical connector	LC/PC optional
Programmable interface	Ethernet
operating temperature	-10°C to 60°C
storage temperature	-20°C to 70°C
Chassis size	1U/2U/5U optional

6. Chassis structure

- It is designed with a standard 19-inch MU-70-ACDC - 1U chassis and plug-in card structure, and a single chassis provides 4 functional module slots, 2 power supply slots and 1 fan slot; adopts the front panel fiber outlet method, all optical interfaces and network management. The interfaces are all designed on the front; the air duct is designed with right air inlet and left air outlet, and an air inlet is designed on the right side of the chassis to absorb cold air into the chassis through the cooling fan unit, and then export it from the air outlet on the left side of the chassis.
- **Size: 1U, 483mm(W)×350mm(D)×44mm(H)**



Description:

- SLOT1 can be inserted into MS-2GEN master control card, SLOT2~4 can be inserted into various types of service cards
- Fan FAN plug: used for chassis cooling. If the PWR indicator is on, it means that the power supply of the fan socket is normal. If the ALM indicator is red, the fan is faulty. Normally, the ALM indicator should be off.
- Indicator light: PWR: On: the power supply is normal; off: no power supply or abnormal.

ALM:

On: the fan is faulty or the temperature is too high;

off: normal

■ Device rear panel





■ **Description:**

- The power supply (PIU) slot is on the back of the device, which supports AC (APU)/DC (DPU) optional, and power supply 1+1 hot backup.
- Indicator light: PWR: On: the power supply is normal; off: no power supply or abnormal.