

EQUIPMENT & TOOLS

TEST EQUIPMENT

BENCH-TOP OPTICAL POWER METER

SF3201 Single Channel Benchtop Power Meter is a test instrument developed by SofeTEK with high precision and wide measurement range. It features intelligent micro-processing control and automatic switch of the measurement range.

SF3201 Single Channel Benchtop Power Meter divides the whole measurement range into 8 sections of the linear process. It eliminates the non-linearity differences caused by the PIN detector under the same wavelength and different power .It greatly improves the accuracy and stability.



Features

- Optical Output Power can be adjustable, adjustment range can be custom-made according to the needs.
- High stability and reliability.
- High accurate ATC and APC control electrocircuit.
- Many kinds of laser wavelengths, Customer order is available.
- OLED display is employed to make a comfortable seeing.
- USB communication port.

Applications

- Teaching and studying of the Fiber optic telecommunication.
- Producing and researching of the optical components.
- Maintenance of the telecom.
- Maintenance CATV.
- Other Fiber Optic Measurement.

Specifications

Type	Part No.SF3201
Wavelength Range	800~1700nm(in 1nm increments)
Calibrated Wavelength(nm)	850nm,980nm,1310nm,1480nm,1550nm,1625nm (Other wavelengths can be optional)
Photo Detector	InGaAs (Optional Si Detector for Short Wavelength)
Measurement Range (dBm)	-70~+3(other measurement range can be customized)
Intrinsic Uncertainty	±3%
Communication interface	RS232
Resolution(dB)	0.01dB
Optical Connector	FC,SC,ST
Power Supply	AC220V(50Hz)
Operating Temperatruer(°C)	-10~+60
Storage Temperatruer(°C)	-25~+70
Dimension(mm)	305*255*115
Weight(kg)	3kg

EQUIPMENT & TOOLS

TEST EQUIPMENT

BENCH-TOP OPTICAL HIGH STABLE LIGHT SOURCE

SofeTEK has designed SF3102 Benchtop high stable light source specially used in manufacturing of optical passive components and testing of lab research. Relying on high accuracy automatic power control(APC) and automatic temperature control(ATC) techniques, SF3102 series light sources has a very stable output power and wavelength. SF3102 can deliver 1 to 2 wavelengths upon customer request and laser types can be optional to satisfy customers various requests. It's an ideal test equipment for a required conditions of wide variety attenuation and high stable output power and wavelength.



Features

- Optical Output Power can be adjustable, adjustment range can be custom-made according to the needs.
- High stability and reliability.
- High accurate ATC and APC control electrocircuit.
- Many kinds of laser wavelengths, Customer order is available.
- OLED display is employed to make a comfortable seeing.
- USB communication port.

Applications

- Manufacturing and Testing of Optical Passive Components
- WDM Testing
- Lab Testing
- Testing of Stability and Linearity
- Test instrument calibration
- Communication System Test

Specifications

Type	SF3102-A(Single wavelength)	SF3102-B(Dua-wavelength)
Operating Wavelength(nm)	850,980,1310,1480,1550,1625	1310/1550,1310/1480,1480/1550,980/1550
Optical Connector	FC/APC(Other type adapters can be customized)	
-3dB Spectral Width(nm)	<0.1	
-20dB Spectral Width(nm)	<0.5	
Side mode suppression ratio(dB)	>35(DFB)	
Optical Output Power(mw)	1~10	
Output power stability in 15 minutes(dB)	±0.005	
Output power stability in 8 hours(dB)	±0.05	
Internal Modulation Frequency	270Hz,1KHz,2KHz pulsating wave, Dutyfactor 50±10%	
external Modulation Frequency	Digitals Signals(frequency:DC~10MHz,TTL)	
TEC stability	±0.1°C	
Operating Voltage	85~264VAC	
Power Consumption	<15W	
Operating Temperature	-10~+60°C	
Storage Temperature	-25~+70°C	
Dimensions(mm)	305*255*115	
Net Weight(kg)	3kg	

Remark: All specifications stated here are depend on DFB laser, Specifications like emitter types, central wavelength, output power on demand.

EQUIPMENT & TOOLS

TEST EQUIPMENT

INSERTION LOSS AND RETURN LOSS TEST STATION

SF3307A Insertion Loss/Return Loss Test Station is a high performance loss test station that is designed specially for Optical Passive Components production Test and Lab Test. It combines three different working modes as a return loss meter, optical power and loss meter and a stable laser source in one test station.



Features

- Outstanding measurement accuracy and repeatability
- Automatic wavelength setting with synchronization
- Multiple working modes
- Easy Operation
- Human Engineering Design
- Dustproof and active Optical Interfaces, easy removal for clean and replacement



Specifications

Model	SF3307A
Optical Return Loss Test	
Wavelength	1310/1550nm
Optic Connector	FC/APC
Return Loss measurement Range	0 ~ 75dB
Calibrated wavelength	1310/1550nm
Output Stability of laser source	0.05dB(1 hour@250C)
Measurement accuracy	0.25dB
Resolution	0.01dB
Optical Power and Loss Test	
Wavelength Range	800~1700nm
Calibrated wavelength	850/1300/1310/1550nm, more other wavelengths can be optional
Optic Connector(Power Meter)	Interchangeable FC/SC/ST/2.5mm Universal /1.25mm adaptors
Photo detector	InGaAs
Display modes	dBm/dB/xW
Measurement range	+3 ~ -80 dBm
Resolution	Non-linear 0.001dB (Linear)0.001nw/ μ W/mW
Measurement accuracy	0.25dB
Other Specification	
Power Supply	AC 90-260V 50~60Hz
Operation Temperature	-5°C+55°C
Dimensions	260X265X140mm
Weight	3kg