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SOF 155-C STABILIZED FIBER OPTIC LIGHT SOURCE

OPERATION MANUAL

WRI

WUHAN RESEARCH INSTITUTE OF P&T,MII CHINA

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I. INTRODUCTION

SOF 155-C stabilized fiber optic light source features high output optical power and high output stability with LD laser as the luminous device.

SOF 155-C stabilized fiber optic light source suits to the scientific research, the manufacture and project measurement for photo-path and photo device in the field of fiber optic communication, high accuracy fiber optic measurement, fiber optic sensor and fiber optic gyroscope, etc. It is the excellent instrument for scientific research and manufacture department in which there are strict requirements on wide variable range on measurement attenuation, on high stability for output optical power. The performance of the light source is of high reliability because the manufacture of the light source is under overall control of ISO 9001-quality management system.

II. FEATURE

High stability on output optical power
Small volume and light weight
Simple operation, high reliability

III. APPLICATION FIELD

Development of the optical fiber communication and optical fiber communication project

Development and manufacture of fiber optic devices

Development and manufacture of fiber optic sensor

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Development and manufacture of fiber optic gyroscope
Fiber optic measurement

IV. Specifications

Item	Specification	remark
Operation wavelength (nm)	1550	
Output power (dBm;CW)	≥-5	
Stability on output power(dB)	≤0.10	Warm up for 1/2 hour, temperature variation ±3℃
The Type of port of the output power	FC	
Operation temperature range (℃)	0～40	
Storage temperature(℃)	-40～+70	
Power supply (AC)	110/220 V, 50/60Hz	
Dimension (mm)	203×170×85	

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V Operation processes and Notice:

1. SOF155-C stabilized light source is very simple in its operation. Insert the plug into 110/220 V AC socket, turn on the power. It can be put into use after an half-an-hour-warming-up. The type of its output port is FC. Connected it with signal receive side with a flexible fiber optic connector. It provides optical signal with high power and high stability. When receive side is optical power meter or wavelength meter, with the light source can be formed as a closed loop testing system. Therefore, the insert loss, the wavelength variation etc. on the tested devices can be tested.

2. When bare fiber is to be connected, FC/PC bare fiber adapter should be applied. Operate as following: Push down the button on the connector, put the bare fiber through the adapter and let the end of fiber out about 5mm. Plane the terminal face of it with diamond cutter, then keep the end of the fiber just reaches the terminal face (at most 0.2mm bulge, otherwise the terminal will be worn away by the bulge to cause the increase the insert loss). The fiber will be fixed when release the button. To avoid micro-hole through the adapter is jammed, the cover of the fiber should be cleaned away thoroughly. It is not allowed that the diameter of the fiber in application is larger than 125 μ m. Needle should be used to push the residual part out of the adapter if the micro-hole through it is jammed by broken fiber.

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Notice

If the connector in measuring is type FC, it can be inserted directly into out port on light source. If that of it is SC or ST, then FC/PC-SC or FC/PC-ST fiber hybrid adapter should be used. When light source is put into use for a period of time, the inner sleeve of the optical output port might be contaminated. This will lead the decrease on the output optical power. In this case, the contamination should be cleaned with alcohol by tiny stick covered with cotton and then cleaned by the stick covered with dry cotton. If it is difficult, please send the light source to the manufacture to make the maintenance.

If the optical output is suddenly decreased, please check these:

1. Keep the test condition clean, because even tiny dust could be serious enough to cause optical output decrease.

2. The connector may be broken, replace it with a qualified one, the output will return to normal state.

3 Loose connecting of the connector is not allowed. Otherwise the optical power read on the optical power meter would not be correct.

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