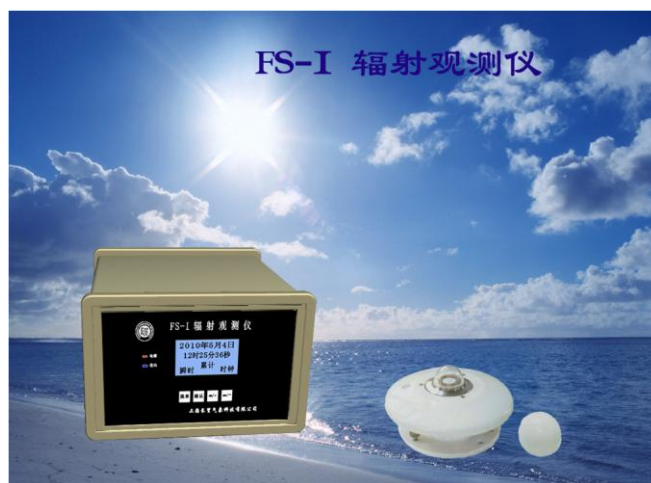


FS- I 辐射观测仪

概述

FS- I 辐射观测仪是用于测量光谱在 UVAB 段太阳紫外辐射的自动化仪器。该仪器由传感器、采集器、电源、信号电缆等组成。传感器采用新型带通式滤光片，将波长 280-400nm 紫外线驻留感光元件上；采集器应用单片机技术专门设计，对传感器信号进行采集、运算、存储等处理并数字显示，分辨率高、抗干扰能力强，接口可扩展至八路，带标准 RS-232 通讯接口。可广泛应用于气象、环保、旅游等行业对紫外线的观测及预报。



主要技术指标

测量范围： 0~70w/m²
分辨率： 0.1w/m²
测量精度： ≤±5%
光谱范围： 280-400nm
采样周期： 1次/分
电源： AC220V ±10%
工作环境：

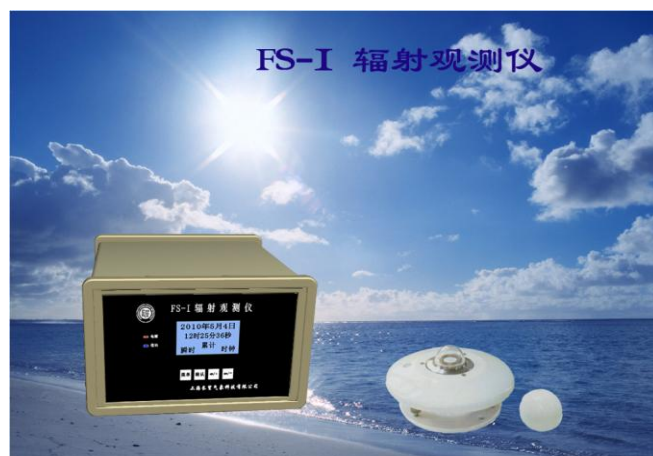
传感器
温度： -40 ~ +50℃
湿度： ≤100%R.H

采集器
-20 ~ +50℃
≤90%R.H

FS- I Ultraviolet Visualizer

Summary

FS- I (ultraviolet visualizer) is an automatic instrument that used to measure solar ultraviolet radiation in the UVAB section spectrum. This instrument consists of the sensor, collector part, power supply, signal cable and other parts. The sensor adopts new-type band pass filter so that it can keep the wavelength of 280-400nm ultraviolet residing in the photosensitive element. The



collector applies single chip technology is specially designed, it can collect, calculate, store and display the sensor signals in digital way. In addition to this, it has high resolution, strong anti-interference ability, the interface can be extended to eight and it is equipped with standard RS-232 communication port. The instrument can be widely used in the observation and forecast of ultraviolet in meteorology, environment protection, tourism or other fields.

Main technical indicators

measuring range: 0~70w/m²
 resolution: 0.1w/m²
 measuring accuracy: $\leq \pm 5\%$
 spectral range: 280-400nm
 sampling period: 1/min
 power supply: AC220V $\pm 10\%$
 working environment:

	The sensor	The collector
Temperature :	-40 ~ +50 °C	-20 ~ +50 °C
Humidity :	$\leq 100\%R.H$	$\leq 90\%R.H$