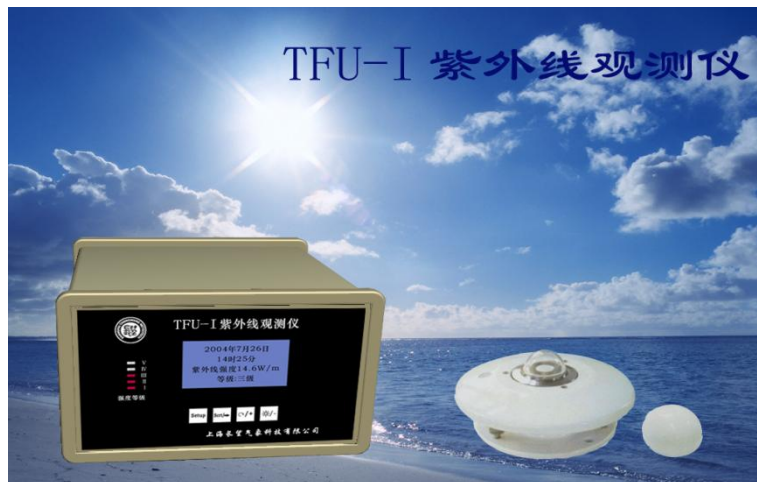


TFU-I 型紫外线观测仪

概述

TFU-1 型紫外线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
- 采样频率：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

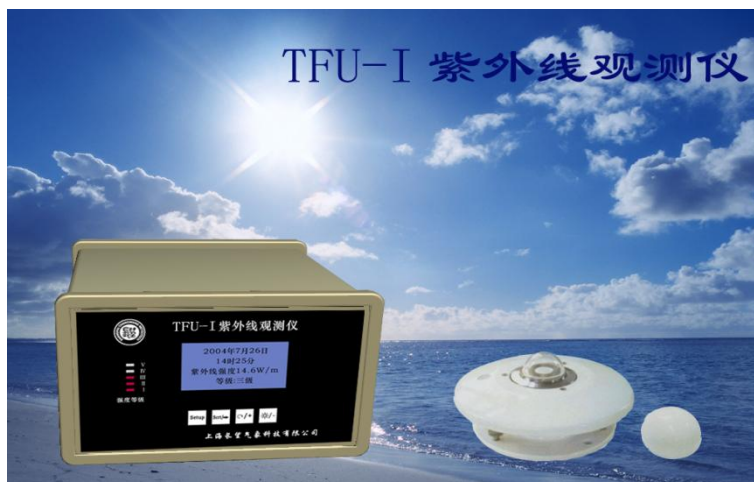
-20 ~ +50℃

≤90%R.H

TFU- I Ultraviolet Observatory

Summary

TFU-1 instrument is used to measure the spectral Ultraviolet observations in paragraph UVAB automation instruments and solar UV radiation. This instrument consists of sensors, data acquisition devices, power supplies, signal cables, and other components. Sensors using the new formula filter, wavelength UV 280-400nm



resides on the sensor. Collector of microcontroller technology specifically designed of sensor signal collection, computation, storage and digital display. High resolution, anti-jamming ability, interface, which can be expanded to eight, with RS-232 standard interface. Can be widely applied in meteorology, environmental protection, tourism and other sectors of ultraviolet observations and forecasts.

Main technical index

measuring range: $0 \sim 70 \text{w/m}^2$

resolution: 0.1w/m^2

accuracy: $\leq \pm 5\%$

spectral range: 280-400nm

sampling frequency: 1 time/min

power: AC220V $\pm 10\%$

working environment:

temperature: sensor $-40 \sim +50 \text{ } ^\circ\text{C}$

humidity: $\leq 100\% \text{R.H}$

collector $-20 \sim +50 \text{ } ^\circ\text{C}$

$\leq 90\% \text{R.H}$