

## MAOS 小气候自动观测仪

### 概述

MAOS 小气候自动观测仪可以对环境的气象要素进行全自动观测,能实时测量温度、湿度、辐射、土壤水分和地温;按照用户设置的时间间隔实时发送测量数据;有显示终端可以现场读数;可通过内部的 GPRS 无线通讯模块实现多个便携自动气象站组网观测;也可以通过 RS-232 或 RS-485 方式通讯将测量并存储的数据输出到计算机形成文本文件;可选卫星或短距离无线传输;可手持、车载或固定安装使用。该自动气象站测量精度高,美观实用,易于携带和操作。



### 主要技术参数

测量参数	测量范围	精度	分辨率
温度	-50℃~+50℃	±0.2℃	0.1℃
湿度	5~100%RH	±2% (≤90%RH) ±3% (>90%RH)	1%RH
光合有效	0~9999 $\mu\text{mol}$	7~14Mv/ $\mu\text{mol}$	1 $\mu\text{mol}$
土壤水分	0~100%	±0.02 $\text{m}^3 \cdot \text{m}^{-3}$	1%
地温	-50℃~+50℃	±0.3℃	0.1℃

## MAOS Microclimate Observation Instrument

### Summary

MAOS Microclimate observation instrument can observe the environment elements automatically. It can provide real-time measurements of temperature, humidity, radiation, soil moisture and soil temperature. Sending measurement data in real time according to the time interval set by user, or you can read the data on the monitor on the spot. It can also achieve network observation among different automatic weather stations through GPRS part inside or output the data it saved to computer into text documents by the means of communication RS232 or RS485. You can choose optional satellite or short-distance wireless transmission and handheld, mobile or fixed installation use. The instrument is with high accuracy, aesthetic and practical, easy to carry and operate.



### Main technical parameters

Element	range	resolution	accuracy
Temperature	-50℃~+50℃	±0.2℃	0.1℃
Humidity	5~100%RH	±2% (≤90%RH) ±3% (>90%RH)	1%RH
Photosynthesis rate	0~9999umol	7~14Mv/umol	1 umol
Soil moisture	0~100%	±0.02 m <sup>3</sup> .m <sup>-3</sup>	1%
Ground temperature	-50℃~+50℃	±0.3℃	0.1℃