

DSD4 型自动雨量站

概述:

DSD4 型自动雨量站是应用微机、通讯、电源技术于一体的先进降水观测设备。该自动雨量站具有对降水进行自动采集、计算、显示、存贮、通讯、告警等功能。用户可根据实际观测点条件进行选择,采集部件有室内型亦有室外型,通讯有有线传输也有无线传输方式,即可在市电状态下工作也可采用太阳能供电,可以区域性组网观测亦可单站/自记观测。该设备可实现各类条件地区雨量观测自动化、遥测化、数字化。广泛应用于气象、水利水电、科学研究、防灾减灾等雨情监测领域。



组成:

该自动雨量站主要由雨量传感器和数据采集部件两大部分组成。雨量传感器感量可选,数据采集部件由采集板、调制解调器、电源部件等组成。

组网观测时,系统由中心站和自动雨量站组成,中心站由计算机、软件、调制解调器等组成。

特点

- ☆自动化、智能化程度高
- ☆接受本站或远程数据访问及查询
- ☆组网通讯方式灵活多样
- ☆不受供电条件限制
- ☆存储容量大 128KB
- ☆工艺精湛性能可靠

主要技术指标:

	技术参数	测量范围	测量精度
雨量传感器	承水口直径	200mm	
	分辨力	0.1mm	
	测量范围	0~4mm/min	
	环境温度	-5~+50℃	
自动雨量站	测量范围	0~999.9mm	±0.4mm (≤10mm 时) ±4% (>10mm 时)
	工作环境	温度范围: -5~40℃	相对湿度: ≤95%RH
	通讯方式	PSTN/GSM/GPRS/CDMA 可选	
	时钟走时精度	月累计误差≤30s	

DSD4 Automatic Rainfall Station

Summary

DSD4 automatic rainfall station is an advanced rainfall observation equipment which use computer technology, mechanics of communication and power technique. Precipitation and temperature can be automatically collected ,calculated, displayed, stored, transported and alarmed by the automatic rainfall station. Users can make their choices according to the real point of observation. You can choose in-door or out-door collection part, wire or wireless transmission, solar or commercial power, regional configuration observation or observe and store itself. The device makes precipitation observation in all kinds of district automated, telemetered and digital. It was widely applied in meteorology, water conservancy and hydrology, science research, prevention and mitigation of disasters, and other precipitation observation fields.



Composition

The automatic rainfall station consists of two parts, sensor part and data collector part. Sensor part includes temperature sensor and precipitation sensor. Data collector part involves collector board, modem, power, and etc.

Trait

- ☆highly automatic and intelligent
- ☆network communication flexible
- ☆storage 128KB
- ☆accept station or a remote data access and querying
- ☆not subject to power supply conditions
- ☆superb reliability

Main technical index

measuring range:	0~999.9mm
communication method:	PSTN/GSM/GPRS/CDMA all available
clock accuracy:	month errors \leq 15s
measurement accuracy:	\pm 0.4mm (\leq 10mm) \pm 4% ($>$ 10mm)
working environment:	temperature range: $-5\sim 40^{\circ}\text{C}$ relative humidity: 0~100%RH