

DZZ3 型自动气象站简介

简介

DZZ3 型自动气象站是一种新型自动气象站，应用气象传感器技术、总线式数据采集器技术、微机与通讯技术，实时地对大气温湿度、湿度、压力、风向、风速、降水、地温，蒸发，辐射等气象要素进行全自动观测，该项目 2011 年 4 月通过中国气象局设计定型，是我国自动气象站更新换代产品。传感器均为目前国家大气监测项目所选用的传感器；数据采集器为我公司自主研发，具有测量精度高、实时性强、任务可组态并可根据用户需要通过 CAN 总线增减观测要素；通讯方式灵活多样，有线、无线、GPRS 等多种通讯方式由用户任选，实现数据传输及组网观测要求；存储功能强大，供电方式灵活。系统广泛应用于气象、军事、环保、生态等领域。



主要功能及特点

- ☆自动采集气象参数并转换为工程量
- ☆测量精度高及自校准功能
- ☆存储 30 天分钟数据，365 天整点数据
- ☆接有线 / 无线 Modem 或 GPRS 可组网观测
- ☆可接受远程访问及数据查询
- ☆市电/太阳能供电、电池后备可工作 72 小时
- ☆防雷及抗干扰能力强
- ☆整套设备具有防腐、防盐雾工艺
- ☆工作性能稳定，可靠性高，易于维修维护

DZZ3 Automatic Weather Station

Summary

DZZ3(Automatic weather station) is a new generation of weather station. It integrates modern meteorological sensor technology, bus-data type acquisition technology, microcomputer & communication technology to measure a real-time atmospheric temperature, humidity, barometric pressure, wind speed and direction, rain, soil temperature evaporation, radiation and the other meteorological elements of the pre-monitored areas. It Finalize the designed by China Meteorological Administration(CMA),The sensors selected by official recommended ;the data collector is designed by our company which with high accuracy, real-time, and configuration, users can increase or reduce the observation elements according to their needs; it also has a flexible way to communication, such as wired or wireless, GPRS or others to realized the networking observation requirements; A good storage function and flexible power supply still his advantages. This system is widely used in meteorology, military, environmental, ecology and other fields.



Main functions and features

- ☆automatic acquisition of meteorological parameters and converted to the engineering quantity
- ☆data storage 30 days with minutes , 365 days with hours
- ☆accept remote access and query of data
- ☆lightning protection and strong anti-interference ability
- ☆stable performance, high reliability, easy to repair and maintenance
- ☆high accuracy and self-calibration function
- ☆wired/wireless Modem or GPRS networking observation
- ☆city electricity/solar power supply, battery backup can work 72 hours
- ☆the whole set of equipment with anti-corrosion, anti-salt spray process

主要技术指标 (Product Specifications)

测量要素 Elements	测量范围 Range	分辨率 Resolution	准确度 Accuracy	备注 Remark
温度 Temperature	-50~+50℃	0.1℃	±0.2℃	
湿度 Humidity	0~100%	1%	±5%	
风向 Wind direction	0~360°	3°	±5°	起动风速 (Start wind speed): ≤0.5 m/s
风速 Wind speed	0~60m/s	0.1	±(0.5+0.03v)	v 为实际风速 v is the actual wind speed
雨量 Rain	0~999.9mm	0.1mm	±4%	误差 error ±0.4mm (≤10m)
气压 Barometric pressure	550~1060hpa	0.1hpa	±0.4hpa	任选 optional 200 hpa
地表温度 Surface temperature	-50~+80℃	0.1℃	0.1℃	
浅层温度 Shallow temperature	-40~+60℃	0.1℃	0.3℃	
深层温度 Deep temperature	-40~+60℃	0.1℃	0.1℃	
总辐射 Total radiation	0~1400W/cm ²	1W/cm ²	±5%	
直接辐射 Direct radiation	0~1400W/cm ²	1W/cm ²	1%	
蒸发量 Evaporation capacity	0~100mm	0.1mm	±0.2mm (≤10mm) ±2% (>10mm)	