

RAWS 公路交通气象观测站

简介

RAWS 公路交通气象观测站是一种结构紧凑、使用灵活、结实耐用、低功耗的气象测量系统。它采用了最新的测量和通讯技术，为多种气象和路面参数提供可靠、连续的数据。可以连接不同的通讯设备，如 PSTN, GSM 和调制解调器、GPRS/CDMA、光纤 MODEM 及卫星发射机进行数据传输。



主要技术参数

测量要素		测量范围	分辨率	准确度	采样速率
气象要素	气温	-50~+50℃	0.1℃	±0.2℃	6次/min
	相对湿度	0~100%RH	1%RH	±5%%RH	6次/min
	风向	0~360°	2.5°	±5°	1次/s
	风速	0~60 m/s	0.1 m/s	±(0.3+0.03V)	1次/s
	气压	450~1100	0.1 hPa	±0.3 hPa	1次/s
	降水量	0~999.9 mm	0.1 mm	±0.4(≤10mm) ±4%(>10mm)	1次/min
	能见度	10~5000 m	10 m	±10%FS	1次/min
路面状态	路面温度	-52~+80℃	0.1℃	±0.2℃	30次/min
	积液深度	0~12.7mm	0.1mm	±1mm	1次/min
	盐百分比	0~100%	0.1%		1次/min
	路面状态	可检测干、潮、湿、霜、雪、冰、水厚度			1次/min

RAWS Traffic Meteorology Observing Station

Summary

RAWS highway traffic meteorology observing station is one kind of compact, flexible, durable and low power consumption measurement system. Using the latest technology of measurement and communication, it provides reliable and continuing data for meteorology and road condition parameters. It can transport data by connecting different equipments such as PSTN, GSM modem, GPRS/CDMA, optical fiber modem and the satellite transmitter.



Main technical parameters

parameters	rang	resolution	accuracy	sample rate	
Meteorology parameters	temperature	-50~+50℃	0.1℃	±0.2℃	6 time / min
	relative humidity	0~100%RH	1%RH	±5%%RH	6 time / min
	Wind direction	0~360°	2.5°	±5°	1 time / s
	wind speed	0~60 m/s	0.1 m/s	±(0.3+0.03V)	1 time / s
	barometric pressure	450~1100	0.1 hPa	±0.3 hPa	1 time / s
	precipitation	0~999.9 mm	0.1 mm	±0.4(≤10mm)±4% (>10mm)	1 time / min
	visibility	10~5000 m	10 m	±10%FS	1 time / min
Pavement condition	ground temperature	-52~+80℃	0.1℃	±0.2℃	30 time / min
	effuse depth	0~12.7mm	0.1mm	±1mm	1 time / s
	percentage of ice	0~100%	0.1%		1 time / s
	pavement condition	Measure the thickness of ice, Frost, snow, water			1 time / s