HY-SA6E all in one weather station

Introduction

HY-SA6E is all in one weather station integrated with multiple modules. Wind measurement is based on our ultrasonic technology, it has no fear of the damage commonly experienced with more fragile cups/vane weather station. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, HY-SA6E is maintenance free, quick and easy to install.

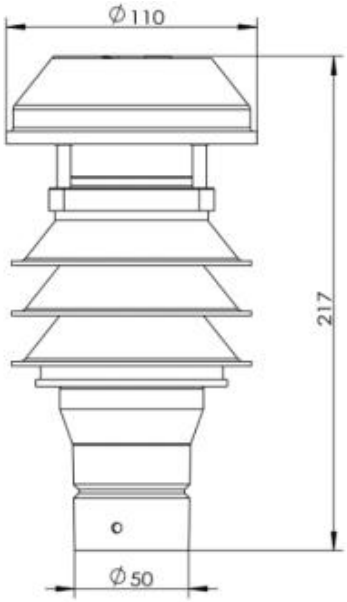
Shell is make by ASA engineering plastic, which has high outdoor weather ability. ASA is extremely resistant against UV radiation of sun, it is frost and heat resistant, standing all climatically conditions for over 10 years.

HY-SA6E can realize simultaneous measurement of multi-parameters: wind,temperature, humidity, pressure and precipitation,solar, luminance, PMs,noise. Precipitation can be detected by 24G radar or piezoelectric module.

Application

Weather observation
Emergency services
Coastal and ocean buoys
Agriculture and horticulture
Environmental monitoring
Air pollutant control

Dimension



Specification

Wind Speed: 0 ~ 70m/s Principle:Ultrasonic
Resolution: 0.1 m/s Accuracy:±3%

Wind Direction: 0 ~ 360° Principle:Ultrasonic
Resolution: 1° Accuracy:±3°
2 minutes, 10 minutes Minimum Maximum
Averaged wind, gust is optional with extra cost.

Temperature: -40~+80℃ Principle:NTC
Resolution: 0.1℃ Accuracy: ±0.5℃

Humidity: 0-100% Principle:Capacitive
Resolution: 0.1% Accuracy:±2%

Pressure: 150-1100hPa Principle:Piezoelectric
Resolution:0.1hPa Accuracy:±1 hPa

Precipitation: 0-500mm/hr
Principle: 24G radar or piezoelectric
Radar module can identify rain,snow,hail
Resolution: 0.01mm/hr Accuracy: ±10%

Luminance: 0-200000lux Principle:photoelectric
Resolution: 1 lux Accuracy: ±5%

Solar Radiation: 0-2000W/m2
Principle:photoelectric
Resolution: 1 W/m2 Accuracy: ±5%

PM1.0/PM2.5/PM10: 0-500ug/m3
Principle: laser scattering
Resolution: 1 ug/m3 Accuracy: ±10%
Noise:30-130 dB Accuracy: ±3dB

Visibility: 10~10000 meters
Principle: laser scattering
Resolution: 1 m Accuracy: ±20%

Serial Output: RS232 or RS485
Formats: ASCII, ASCII polled, NMEA0183, MODBUS-RTU, SDI-12
Baud: 1200~115200 bps

Power consumption: 7-30 VDC < 110 mA typical
Operating temperature: -40 ~ +70°C
Operating humidity: 0 ~ 100%

Hongyuv Technology Co., Ltd.
Xinye Road 4th,Pidu Zone,Chengdu City,Sichuan Province,China
TEL / Whatsapp: +86 18681878709 Skype:stefan@hongyuv.com
Email: stefan@hongyuv.com Wechat:wswgenius
Website: www.hongyuv.com/en