WEATHER SENSORS

GOLDTEC CONTROL SYSTEMS

ATMOSPHERIC PRESSURE, TEMPERATURE, HUMIDITY & DEW POINT

Atmospheric Pressure, Temperature, Humidity & Dew Point Sensor is a professional measurement of air temperature, relative humidity & barometric pressure. Sensors are built-in the water-proof and anti-UV shelter.

This cutting-edge instrument combines the functionalities of an atmospheric temperature sensor, an ambient pressure sensor, and a humidity sensor into a single compact unit. Equipped with advanced technology, this atmospheric sensor provides precise measurements of temperature variations in the atmosphere while concurrently gauging the surrounding air's moisture content and barometric pressure.

SPECIFICATIONS

Temperature Range:	-40-60°C
Humidity Range:	0-100% RH
Pressure Range:	10-110kPa [100-1100hPa]
Temperature Resolution:	0.1°C
Humidity Resolution:	0.5% RH
Pressure Resolution:	0.1hPa
Temperature Accuracy:	±0.5°C
Humidity Accuracy:	±3%RH
Pressure Accuracy:	±1hPa
Supply:	5VD, 12-24VDC
Output Signal:	4-20mA, 0-5V, 0-10V, RS485 [MODBUS], IIC, SDI-12

ULTRASONIC WIND SPEED & WIND DIRECTION

Wind speed and direction meter is a measuring instrument which uses the time difference of ultrasonic wave in the air to measure the wind speed and direction. It uses low-power chip with power consumption of only 0.2W, which is especially suitable for solar or battery powered environment with high power consumption requirements.

FEATURES

- Adapt to complex weather conditions
- No moving parts, long service life
- Strong anti-interference
- High accuracy

SPECIFICATIONS

Wind Speed Range:	0-70m/s
Wind Direction Range:	0- 359°
Wind Speed Resolution:	0.1m/s
Wind Direction Resolution:	1°
Wind Speed Accuracy:	±3%
Wind Direction Accuracy:	±3°
Power Supply:	5V, 12-24VDC
Power Consumption:	0.2W
Output Signal:	RS232/ RS485 [MODBUS/NMEA-0183], 4-20m A/0-5V optional], SDI-12

SOLAR RADIATION

Solar Radiation Sensor is designed on basis of silicon-cell principle. It is mainly used for measuring solar radiation within 300-1100nm wavelength. If the sensing face is downwards, it can test the reflected radiation and solar radiation on the incident to the inclined plane. **Solar radiation sensor** is widely used to monitor the solar radiation in meteorology, solar energy, agriculture, construction materials aging and atmospheric pollution.

SPECIFICATIONS

ITEM	SPECIFICATIONS
Spectral Range	300~1100nm
Supply	5V, 12-24VDC
Range	0-1500W/m2
Resolution	1W/m2
Output	0-5V,4-20mA, RS485, SDI-12

RAIN TIPPING BUCKET

Economical Tipping Bucket Rainfall Sensor is a hydrology, meteorological instrument used to measure the nature of rainfall, and it converts the precipitation into a pulse signal output. Designed with insect-proof nets, free blocking nozzle and built-in leveller. The model can be used in meteorology, hydrology, agriculture, forestry, field monitoring stations and other industries. Combined with rainfall recorder can be used to measure precipitation, precipitation intensity, precipitation time.

SPECIFICATIONS

ITEM	SPECIFICATIONS
Collector	Diameter: φ200mm, height: 271mm
Measured Rainfall Intensity	Max: 4mm/min
Allow Rainfall Intensity	Max: 8mm/min
Resolution	0.2mm
Accuracy [2mm/min]	±4%
Maximum Load Voltage	30VDC [pulse output
Maximum Load Current	20mA
Output	Pulses [@10kΩ& 0.01uF], RS485 [12-24VDC supply], SDI-12

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