

## OVERVIEW

CDQ-T1C automatic weather instrument is simultaneously measure the atmospheric temperature, atmospheric humidity, air pressure, wind speed, wind direction, solar radiation, Illuminance/UV, dust concentration and precipitation. Temperature, humidity and air pressure sensor is placed within the radiation shield. Wind speed and direction of ultrasonic principle.24G radar detection on rainfall, which can quickly detect rainfall and rainfall intensity.

## BENEFITS AND FEATURES

- High accuracy
- Strong resistance to harsh environment
- Strong corrosion resistant ability
- Automatic storage and backup
- Convenient data download
- All-metal construction of bracket
- Solar power supply optional
- Free PC software

## APPLICATIONS

- Agricultural
- Forestry
- Highways and railways
- Solar or wind power generation
- Greenhouse, breeding
- Scenic region
- Meteorological science research



Monitor wind speed, wind direction

Model:CDQ-T1C200L



Monitor temperature, humidity, air pressure, wind speed, wind direction

Model:CDQ-T1CXF500



Monitor temperature, humidity, air pressure, wind speed, wind direction, illumination

Model:CDQ-T1C500GL



Monitor temperature, humidity, air pressure, wind speed, wind direction, solar radiation

Model:CDQ-T1C500SL



Monitor temperature, humidity, air pressure, wind speed, wind direction, rainfall

Model:CDQ-T1C600AL



Monitor temperature, humidity, PM2.5, PM10, noise, illumination

Model:CDQ-T1CXF603



Monitor temperature, humidity, air pressure, wind speed, wind direction, rainfall, illumination

Model:CDQ-T1C700L



Monitor temperature, humidity, air pressure, wind speed, wind direction, PM2.5, PM10, noise

Model:CDQ-T1C800L



Monitor temperature, humidity, air pressure, wind speed, wind direction, PM2.5, PM10, noise, illuminance/solar radiation, rainfall

Model:CDQ-T1C900L

## TECHNICAL DESCRIPTION

Model	CDQ-T1C200L	CDQ-T1CXF500	CDQ-T1C500GL	CDQ-T1C500SL	CDQ-T1C600AL
<b>Measured Parameters</b>	Wind speed  Wind direction	Temperature, Humidity, Air Pressure, Wind Speed, Wind Direction	Temperature, Humidity, Air Pressure, Wind Speed, Wind Direction, Illumination	Temperature, Humidity, Air pressure, Wind Speed, Wind Direction, Solar Radiation	Temperature, Humidity, Air pressure, Wind Speed, Wind Direction, Rainfall
<b>Measuring Range</b>	0-40m/s  0-359.9°	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9°	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-200KLux	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-2000W/m2	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-200mm/h
<b>Accuracy</b>	± (0.5+0.05V)m/s, ±5° (wind speed <10m/s)	≅ ± 0.3 ℃ ≅ + / - 3% RH ≅ + / - 0.3 hPa (@ 25 ℃, ) ± (0.5+0.05V) m/s ±5° (wind speed < 10m/s)	≅ ± 0.3 ℃ ≅ + / - 3% RH ≅ + / - 0.3 hPa (@ 25 ℃, ) ± (0.5+0.05V) m/s ±5° (wind speed < 10m/s) ±1%F.S	≅ ± 0.3 ℃ ≅ + / - 3% RH ≅ + / - 0.3 hPa (@ 25 ℃, ) ± (0.5+0.05V) m/s ±5° (wind speed < 10m/s) ±5%	≅ ± 0.3 ℃ ≅ + / - 3% RH ≅ + / - 0.3 hPa (@ 25 ℃, ) ± (0.5+0.05V) m/s ±5° (wind speed < 10m/s) ±4%
<b>Resolution</b>	0.01m/s 0.1°	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1°	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1° 10Lux	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1° 1W	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1° 0.2mm
<b>Output</b>	RS485(MODBUS-RTU),SDI-12(Need to add modules)				
<b>Power Supply</b>	DC9-24V				
<b>Product Size (mm)</b>	116*147	116*217	116*217	116*217	116*225

# CDQ-T1C Automatic Integrated weather station



Model	CDQ-T1CXF603	CDQ-T1C700L	CDQ-T1C800L	CDQ-T1C900L
<b>Measured Parameters</b>	Temperature Humidity PM2.5 PM10 Noise Illumination	Temperature Humidity, Air pressure Wind speed Wind direction Rainfall, Illumination	Temperature Humidity Air pressure Wind speed Wind direction PM2.5 PM10 Noise	Temperature Humidity Air pressure Wind speed Wind direction PM2.5 PM10 Noise Illuminance/ Solar radiation Rainfall
<b>Measuring Range</b>	-40-85℃ 0-100%RH 0-500ug/m <sup>3</sup> 0-500ug/m <sup>3</sup> (1000ug/m <sup>3</sup> ) 30-130dB 0-200klux	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-200mm/h 0-200klux	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-500ug/m <sup>3</sup> 0-500ug/m <sup>3</sup> (1000ug/m <sup>3</sup> ) 30-130dB	-40-85℃ 0-100%RH 300-1100hPa 0-40m/s 0-359.9° 0-500ug/m <sup>3</sup> 0-500ug/m <sup>3</sup> (1000ug/m <sup>3</sup> ) 30-130dB 0-200klux/ 0-2000W/m <sup>2</sup> 0-200mm/h
<b>Accuracy</b>	≅±0.3℃ ≅±3%RH (@25℃) ±(10+10%) ug/m <sup>3</sup> ±(10+10%) ug/m <sup>3</sup> ±1.5dB ±3% or 1%F.S	≅±0.3℃ ≅±3%RH (@25℃) ≅±0.3hPa ±(0.5+0.05V) m/s ±5° ±4% ±3% or 1%F.S	≅±0.3℃ ≅±3%RH (@25℃) ≅±0.3hPa) ±(0.5+0.05V) m/s, ±5° ±(10+10%) ug/m <sup>3</sup> , ±(10+10%) ug/m <sup>3</sup> , ±1.5dB	≅±0.3℃ ≅±3%R ≅±0.3hPa ±0.5+0.05V/m/s ±5° ±10+10%ug/m <sup>3</sup> ±10+10%ug/m <sup>3</sup> ±1.5dB 3%/±5% ±4%
<b>Resolution</b>	0.01℃ 0.01%RH 1ug/m <sup>3</sup> 1ug/m <sup>3</sup> 0.1dB 10Lux	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1° 0.2mm 10LUX	0.01℃ 0.01%RH 0.1hPa 0.01m/s 0.1° 1ug/m <sup>3</sup> 1ug/m <sup>3</sup> 0.1dB	0.01℃,0.01%RH, 0.1hPa,0.01m/s 0.1°,1ug/m <sup>3</sup> , 1ug/m <sup>3</sup> , 0.1dB, 10LUX,1W 0.2mm
<b>Output</b>	RS485(MODBUS-RTU),SDI-12(Need to add modules)			
<b>Power Supply</b>	DC9-24V			
<b>Product Size (mm)</b>	112*147	116*260	116*237	116*286

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