CDQ-T6A Miniature Ultrasonic Automatic Weather Instrument



OVERVIEW

CDQ-T6A miniature ultrasonic weather station is a fully digital detection, high-precision sensor, which is integrated by the principle of ultrasonic wind speed and direction sensor, high-precision digital temperature, humidity, pressure sensor, can accurately and quickly detect wind speed, wind direction, atmospheric temperature, atmospheric humidity and Atmospheric pressure, built-in signal processing unit can output corresponding signals according to user needs, high-strength structure design can work reliably in harsh climate environment, can be widely used in meteorology, ocean, environment, airport, port, laboratory, industry, agriculture and transportation, etc.



BENEFITS AND FEATURES

- High accuracy, fast response
- Easy to install, all-weather measurement
- RS485
- High-strength structural design

APPLICATIONS

- **Environmental monitoring**
- Sea-going vessel
- Bridge & Tunnel
- Solar and wind power generation
- Wind resource assessment
- Drilling platform
- Automatic weather station
- Agriculture

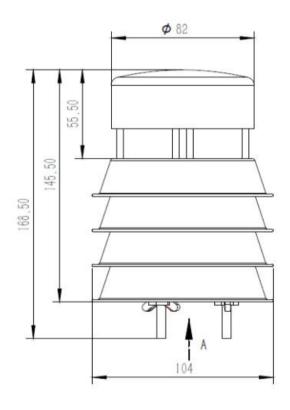
TECHNICAL DESCRIPTION

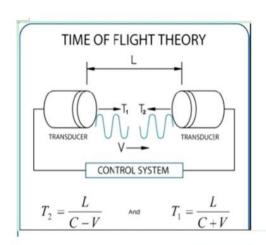
Measure item	Principle	Range	Resolution	Accuracy					
Wind speed	Ultrasonic	0-40m/s	0.01m/s	±0.5+2%FS					
Wind direction	Ultrasonic	0-359°	1°	±3°					
Atmospheric temperature	MEMS	-40-+100℃	0.1℃	±0.5℃					
Atmospheric humidity	MEMS	0-100%RH	0.1%RH	±3%					
Supply	12-24VDC								
Output	RS485								
Communication Protocol	Modbus-rtu								
Power consumption	0.6W								
Operating temperature	-40-+80℃								
IP Rating	IP65								
Main material	ABS+ Aluminum alloy								

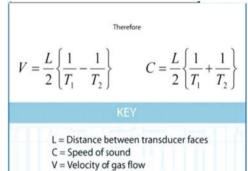


DIMENSION

Unit:mm







T1 = Transit time of ultrasound T2 = Transit time of ultrasound

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ORDERING STRING

Remark	Series	Туре	Supply	Output	Communication Protocol	Measure parameters	
CT					FIOLOCOI	parameters	
	Q						
		T6A					
			Α				12-24VDC
			Х				Other
				Α			RS232
				В			RS485
				С			SDI-12
					Α		Modbus-rtu(default)
					В		NMEA-0183
					С		SDI-12
					X		Other
						M5	Wind speed, wind direction temperature & humidity air pressure
						M6	Wind speed, wind direction temperature & humidity air pressure, rainfall
						Х	Customized(1)

①Wind speed and direction are necessary, and other parameters can be combined freely



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