JNC

多合一超音波風速風向
All-in-One Ultrasonic Wind Speed and Direction Sensor

UW485

[Features]



- All-in-One model adds temperature, humidity, pressure and rainfall
- Ultrasonic measuring principle with no moving parts, minimising wear
- High-accuracy wind speed and direction with fast, stable response
- Real-time monitoring and data transmission, easy to integrate
- Rugged for harsh outdoor use; CE (EU) and FCC (US) certified
- RS-485 interface with standard Modbus RTU; no data conversion needed
- Compact and lightweight, simple to install, long service life
- 100 ms sampling interval (10 readings/second) for fast wind response

[Applications] Construction, weather monitoring, agriculture, smart cities

[Model Selection] UW485-Code 1-Code 2-Code 3

Code 1	Range	Code 2	Description	Code 3	Cable Length
45	0~45m/s	TR/PR/OR	All-in-One: wind + temp., RH, pressure, rain	N	3 m
				C	3 m + connector
70	0~70m/s	N	Wind speed & direction only	Value N	Cable Length
				Value C	Length + connector

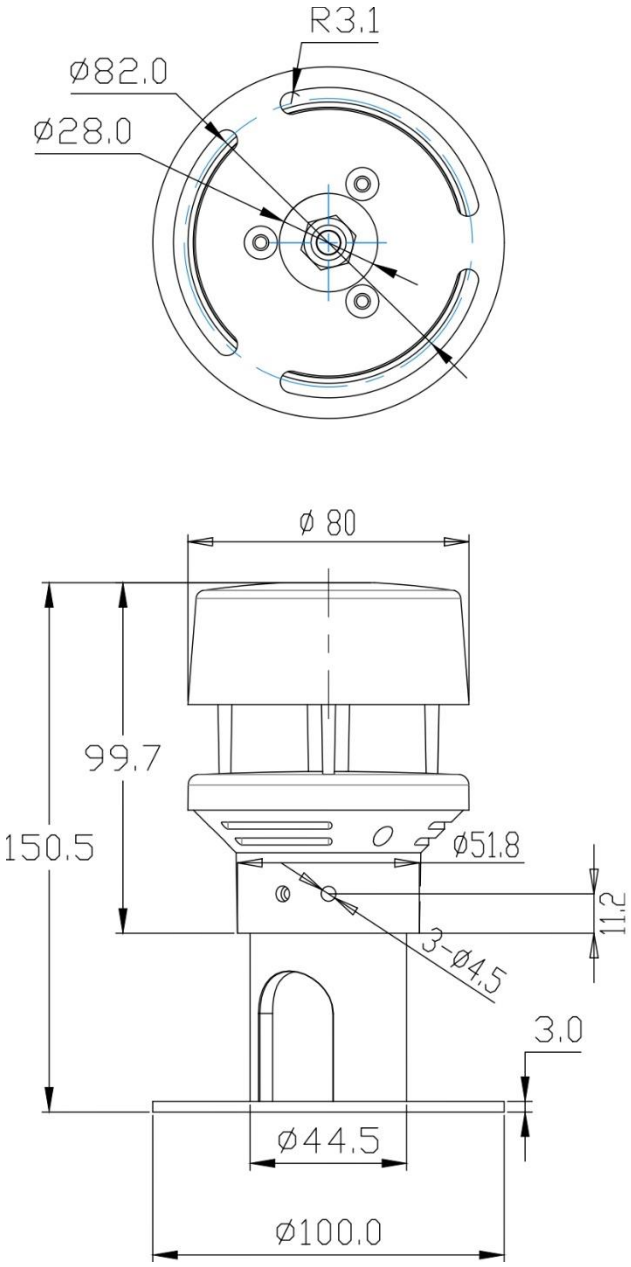
※If Code 1 is "70", Code 2 must be "N"

[Specifications]

Code 1	45 m/s		70 m/s	
Power Supply	9~30V			
Consumption	≦0.12W (Code 2: N), ≦0.52W (Code 2: TR/PR/OR)			
Communication	RS485 Modbus			
Principle	Ultrasonic (wind speed & direction), optical (rainfall)			
	Speed	Direction	Speed	Direction
Range	0~45m/s	0~360°	0~70m/s	0~360°
Resolution	0.01m/s	1°	0.01m/s	1°
Accuracy	Start-up ≦0.3m/s ±0.3m/s	±3°	Start-up ≦0.3m/s ±0.3m/s	±3°
All-in-One	Range	Resolution	Accuracy	
Temperature	-40~80℃	0.1℃	±0.3℃	
Humidity	0~100%RH	0.1%RH	±5%RH	
Pressure	300~1100hPa	0.1hPa	±0.5hPa (25℃)	
Rainfall	0~4.00mm/min	0.03mm	±4%	
Protection	IP65			
Environment	-40℃~+70℃, 0~100%RH			
Certification	CE (EU) and FCC (US) certified			
Product Size	Ø80*100 mm		Ø140*158 mm	
Weight	380g		500g	

[Dimensions] Unit: mm

Code 1: 45



Code 1: 70

