

FS612 Series Ultrasonic Anemometer

- FS612 series ultrasonic anemometer is to measure both wind speed and wind direction.
- It features no startup wind speed requirement, high measurement precision, strong anti-interference capabilities, no mechanical wear, and resistance to corrosion and freezing.
- FS612 series ultrasonic anemometer can be widely used in wind power, weather monitoring, transportation and other industries.



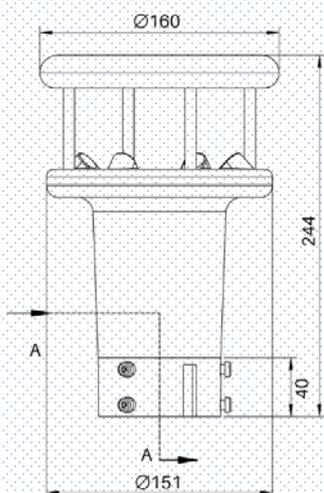
◇ Technical Data

WIND SPEED	
Range	0 ~ 50m/s (for on shore use 80m/s) (for off shore use 0~75m/s (100m/s))
Accuracy	±0.5m/s when wind speed between 0 m/s and 15 m/s ±3% when wind speed >15 m/s
Resolution	0.1m/s (0.2 knots)
Signal Output	4 ~ 20mA (0~50m/s)
DIRECTION	
Measuring Range	0 ~ 360° (No dead band)
Precision	±2°
Resolution	1°
Signal Output	4 ~ 20mA (0~360°)
MEASUREMENT	
Ultrasonic Output Rate	≤25Hz
Parameters	Wind Speed & Direction
Units of Measure	m/s
OUTPUTS	
Option1	RS485+ModbusRTU
Option2	0 ~ 20mA or 4 ~ 20mA
Option3	RS485+ModbusRTU 0 ~ 20mA or 4 ~ 20mA
Baud Rate	38400bps
MECHANICAL	
External Construction	
Size	160mm × 244mm
Weight	2.5kg

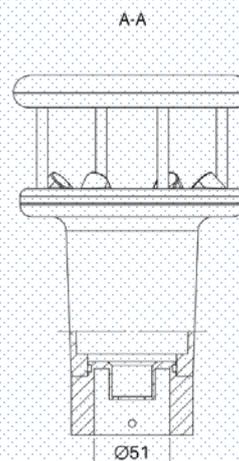
ENVIRONMENTAL	
Protection Class	IP66
Operating Temperature	-40°C to +70°C
Storage Temperature	-50°C to +70°C
Working Humidity	<5% to 100% RH
Storage Humidity	<20% to 75% RH
EMC	According to IEC 61000-4
POWER REQUIREMENT	
Power Supply	24Vdc (18 ~ 30Vdc)
Rated Power	20W
Heating Power	240W

✧ Typical Applications

○ Remote weather monitoring stations

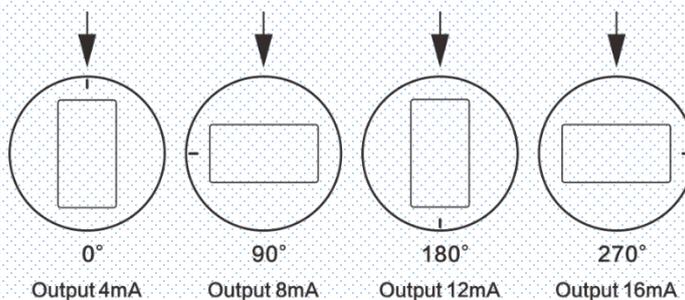


○ Wind farm



Housing Dimensions of Ultrasonic Anemometer (Anemometer weight is 2.5kg)

○ Incoming Wind



Definition of wind direction