



Ultrasonic Anemometer

The Ultrasonic Anemometer is part of the SEVEN meteorological sensor family, which comprises professional, smart measurement sensors with digital interfaces for environmental and industrial applications. It is suitable for meteorological stations, wind farms, ports, airports and building façades. Using ultrasonic technology instead of moving mechanical parts, the Ultrasonic Anemometer provides accurate wind speed and wind direction data in a single, compact housing.

The Ultrasonic Anemometer is available with a Modbus RTU digital output, allowing measured data to be transferred to data loggers or monitoring units according to system requirements.

SEVEN products use reliable, high-quality components to deliver accurate meteorological information in environmental and industrial applications. Compared with conventional cup-and-vane anemometers, the Ultrasonic Anemometer offers significant advantages: with no moving parts, it is not subject to mechanical wear, friction or bearing failure, resulting in a longer service life and minimal maintenance. It can accurately measure very low wind speeds that mechanical anemometers may fail to detect, while its fast response time captures sudden gusts and direction changes more accurately. It is also far more resistant to icing-related failures and requires no lubrication, making it ideal for harsh outdoor conditions and long-term, maintenance-free operation.

Features and Benefits

- WMO-No. 8 Measurement Compliance
- Fast and Easy Installation
- Compact Design with No Moving Parts
- Free Firmware Updates
- Termination Resistor Configurable via GUI
- SEVEN Remote Setup and After-Sales Support
- SunSpec Compliant
- 2-Year Warranty

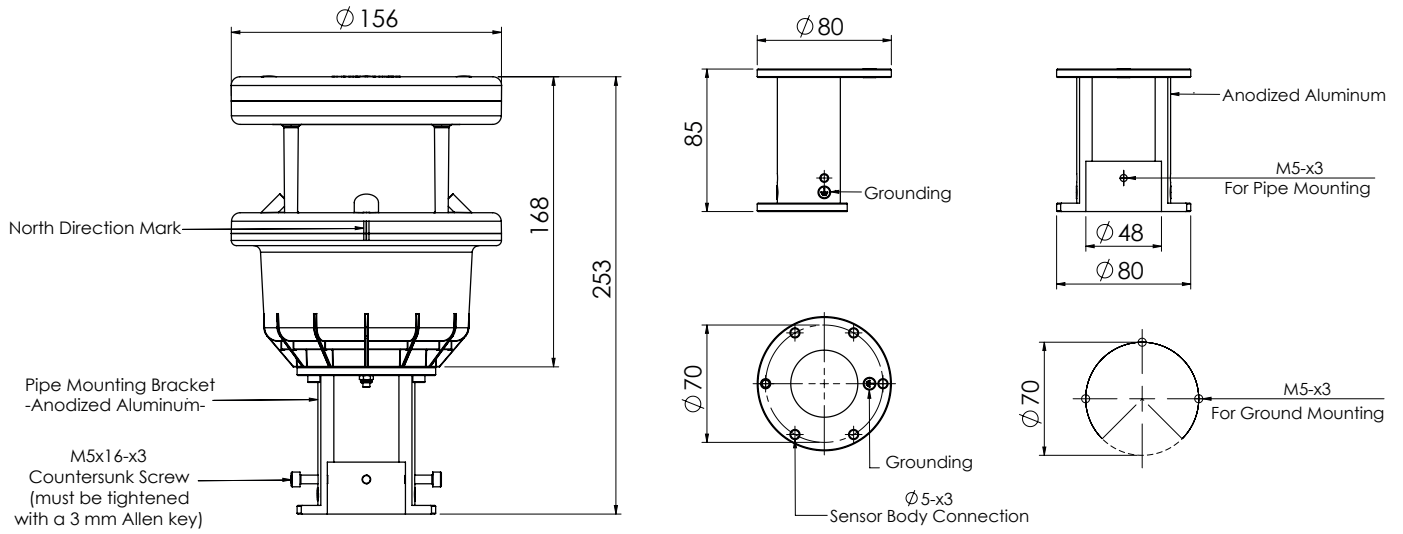
Technical Specifications

	3S-UA	
Measured Value	Wind Speed	Wind Direction
Sensor Type	Ultrasonic	
Measurement Range	0 - 75 m/s	0 - 360°
Uncertainty	±0.2 m/s or ±2% @ 0 - 35 m/s ±3% @ 35 - 75 m/s	±2°
Resolution	0,1 m/s	0,1°
Power Supply	24 - 30 V DC	
Power Consumption	Typ. 35 mA @ 24 V DC, 25 °C	
Cable Length & Features*	LI2YC11Y-TP PUR cable in various lengths and sizes; UV and Weather Resistant; cable bending radius 35 mm	
Data Output	RS-485, 4800 to 38400 Baud	
Output Rate	1/s	
Communication Protocol	Modbus RTU (Modbus TCP/IP optional)	
Galvanic Isolation	1000 V between power supply and RS-485 bus	
Operating Temperature Range	-20°C ... +60°C	
Operating Humidity Range	0 ... 100% RH	
IP Rating	IP66	
Dimensions	Ø156 x 253 mm	
Weight	0,7 kg	
Housing Material	ASA**	
Mounting Method	Pipe or Ground Mounting	
Origin	TÜRKİYE	

* Communication cable is sold separately. Contact the SEVEN Sales Team for 3 m, 5 m, 10 m or longer length options.

** Plastic parts may discolor due to sunlight exposure.

Technical Drawings



Note: All dimensions are in mm.

*** SEVEN reserves the right to make changes to this document without prior notice.