



# Mod. **ANEST**

## Triaxial Ultrasonic Anemometer

Highlighted specs

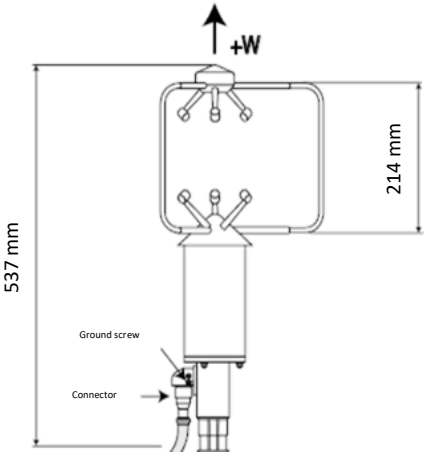
- No moving part, reduced maintenance and service costs
- Low power consumption
- High accuracy on measures
- Up to 5 analogue voltage outputs (on request), with different measurement ranges
- Reliability and accuracy on the whole measuring range, no additional calibration required
- Automatic alignment to magnetic North through built in compass
- Heated option: built-in heating device for low temperatures conditions
- According to CE norms

The **ultrasonic sensor** ANEST is a triaxial anemometer able to measure the wind speed and direction, the U-V-W Cartesian components, sound speed and sonic temperature, with a very high precision. Made of resin and anodized aluminium alloy, it's **precise and extremely reliable** in all conditions with high dynamic response. The easy use and installation, makes it an effective instrument in environmental monitoring applications, where for various reasons, the regular maintenance of equipment can't be easily done, such as for mechanical anemometers. Available in **analogical** voltage or current output (4÷20mA, 0÷1V, 0÷5V) and **digital** (ModBus RS485) versions. **Heated option available.**

Typical range	Wind speed Wind Direction Zenith Sound speed Sonic temperature	0÷70 m/s 0÷360° ± 60° 300÷380 m/s -40÷60°C
Resolution	Wind speed Wind Direction Zenith Sound speed Sonic temperature	0.01 m/s 0.1 ° 0.1 ° 0.1 m/s 0.1 °C
Accuracy	Wind speed Wind Direction Zenith Sound speed Sonic temperature	± 2% of reading ± 1° ± 1° ± 1% of reading ± 1 °C
Anemometric parameters available	Wind speed and direction, U-V Components	
Heading Compass	North marker Arrow	
Analog Outputs	Factory set 0÷20mA, 4÷20mA, 0÷1V, 0÷5V Resolution 14 bit max ModBus RS485	
Power supply	12 ÷ 30 Vdc	
Power consumption	<2,5W 110mA @ 15Vdc, < 6W with heating option (@10°C)	
Weight	1650 g	

Size and connections

Pin	Wire	4/20 mA Signals	
1	White-Brown	+Power: 12÷30Vdc	
2	Yellow Green	- Power: Gnd	
3	White	(+ lout) Sound speed	300÷380 m/s
4	Blue	(+lout) Sonic temperature	-40°+60°C
5	Yellow	(+lout) Wind speed	0÷60 m/s
6	Red	(+lout) Azimuth	0÷360°
7	Orange	(+lout) Zenith	± 60°
8	Black-Brown	Ref. GND Analogica segnali out	



Order Code

Sensor	Triaxial Ultrasonic Anemometer Heated Triaxial Ultrasonic Anemometer	ANEST ANESTR			
Output	Analogic (0÷20 mA, 4÷20mA, 0÷1V, 0÷5V, 0÷10V) RS485 / Modbus	- C			
Accessories	ANxx – Specific cable xx* m length sensor SS_AN – Specific tapered support l=1000mm KIT_AN – Specific mouting kit ø 40mm for SS_AN		ANxx		SS_AN KIT_AN

\*specify the length for no standard measures

example of order code

ANEST

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AN20

SS\_AN