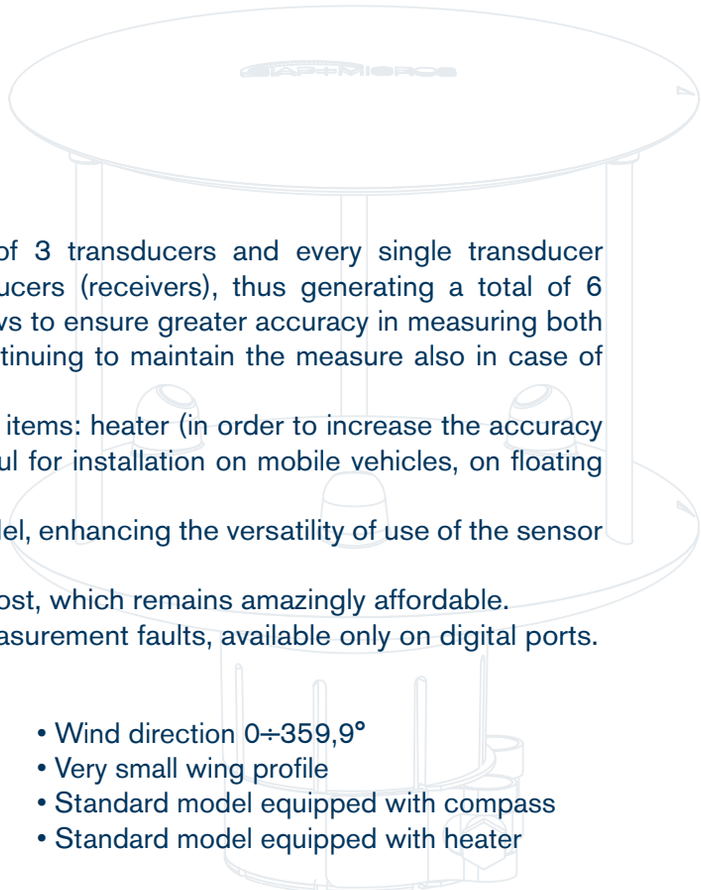
SIAP+MICROS
Environmental Monitoring Solutions
Since 1925

WinSon
ultrasonic anemometer

Main features

- Wind speed up to 75 m/s
- Wind direction 0÷359,9°
- High accuracy
- Very small wing profile
- Innovative measurement system
- Standard model equipped with compass
- Standard model equipped with heater
- Digital or analog outputs available on the same sensor
- Diagnostic system able to report measurement faults

WinSon ultrasonic anemometer



The specific instrument is equipped with a total of 3 transducers and every single transducer (transmitter) is connecting with a couple of transducers (receivers), thus generating a total of 6 possible paths. The fact of having up to 6 paths, allows to ensure greater accuracy in measuring both speed and direction as well as the possibility of continuing to maintain the measure also in case of obstruction of one or two paths.
Standard model is always equipped with 2 additional items: heater (in order to increase the accuracy in humid installation places) and compass (very useful for installation on mobile vehicles, on floating items (buoy) or re-allocable stations).
A variety of different outputs is available on each model, enhancing the versatility of use of the sensor itself.
All these high valuable features don't impact on its cost, which remains amazingly affordable.
The diagnostic system on board is able to report measurement faults, available only on digital ports.

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Technical features

Wind Speed

Range	0÷75 m/s
Sensitivity	0,01 m/s
Accuracy	±0,20 m/s or 2% (0÷35 m/s) ±3% >35 m/s
Response Time	250 ms

Wind Direction

Range	0÷359,9°
Sensitivity	0,1°
Accuracy	±2° > 1m/s
Compass	0÷359,9°

Output Characteristics

all available on the same sensor

Serial output interfaces	RS232 / RS485 (MODBUS) SDI-12
Analog outputs (speed and direction)	0-2 Vdc

Environmental characteristics

Operating temperature	-40°C ÷70°C
Degree protection	IP 66
EMC	EN 61326-1:2013

Power requirements

Power supply	Vcc = +9 ÷ +24 Vdc
Supply current (mA)	<18mA
Max supply current with heating thermostat (mA)	<500 mA (duty cicle 100%)
Startup time	<1s

Other Characteristics

Compass	included
Heater	included

Mechanical Characteristics

Housing	polypropylene and polyamide
Mounting pole	Øext max = 50mm Øint min = 45mm

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