

ALIZIA 312

Wind intelligent sensor



The Alizia 312 sensors include one anemometer with cups and one vane with flag in carbon fibre. They are supplied by one solar panel.

The sensors make speed and direction measurements twice a second and make the necessary calculations to the wind running according to the WMO* and ICAO** rules.

Main calculations:

Wind maximum speed and its associated direction, calculated during one and 10 minutes.
Calculated variation of wind speed and direction during 10 minutes

Wind average speed and the argument of the wind average vector during 2 and 10 minutes

Passed wind during one minute
Standard deviation of wind speed and direction during 10 minutes

Squall indicator

The intelligent sensors manage the CIBUS protocol and transmit data to one display for displaying the instantaneous values of wind

This wind measurement line is used in the **Meteo-France** national network.

Sensors characteristics

Anemometer

Range : 0-80m/s
Maximum : 90m/s
Accuracy :
± 0.5m/s in the range 0-10m/s
± 3%(1) in the range 10-80m/s
(1) of the read value
Start threshold : 0.5m/s
Using range : -20° à +70°C
Size/ material :
Body: Ø48 x 125mm / painted aluminium
Cup : Ø170 x 65mm /reinforced polyamide
With 30% glass fibre

Vane

Range : 0-360°
Accuracy: ±3°
Damping factor : >0.3
Using range : -30°C à +70°C

Size / Material :

Body: Ø48 x 125mm / painted aluminium
Flag : 570 x 335 / carbon fibre

*WMO World Meteorological Organization

**ICAO International Civil Aviation Organization

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