



## DEOLIA396

The wind sensor DEOLIA396, is an integrated system composed with an anemometer, wind-vane and a DEOLIA396 wind transmitter.

The sensor DEOLIA396 can be used in any configurations and allows in particular:

- The coupling of wind measurement to an acquisition and processing system dedicated to the meteorological measurement (automatic station XARIA range).
- The transfer of pre-processed wind data to a local operating system (PC, display...).
- The transfer of instantaneous value of wind speed and wind direction to specific processing systems and/or visualisation systems.



## ● Operations

- Acquisition of the wind speed and direction from opto-electronic sensors every 500 ms.
- Calculation of 10' variability, 2' and 10' averages from algorithms approved by METEO-FRANCE (in accordance with ICAO and WMO recommendations).
- Transmission of computed data on a major channel (CIBUS compatible) and on an auxiliary channel (in option).
- Transmission of the calculated values on the CAN BUS of the XARIA station according to the RADOME protocol.

## ● Characteristics

	ANEMOMETER DEOLIA96	WIND-VANE DEOLIA96
Resolution	+ ou - 0.1 m/s	10 degrees from 0.4 m/s wind speed
Transductor	Opto-électrique	Opto-electronic
Range of measurement	from 0.4 m/s to 80 m/s	Wind direction over 36 sectors
Operating temperature	-40°C to +70°C	-40°C to +70°C

DD/FF WIND TRANSMITTER		
Operating temperature	-40°C to +70°C	
Power supply	11 to 20 Vcc	
Mean consumption	12 mA	
Data output	Instantaneous	real time : RS232 or FSK modulation
	Calculated	on CIBUS request (Meteo France format) for connection to XARIA stations : FSK modulation
		on request to CAN/XARIA format for connection to XARIA stations.

MEASUREMENT TREATMENT		
	SPEED	DIRECTION
Sampling	Every 500 ms	
Instantaneous data	3 seconds sliding mean, calculated every 500ms	
Calculated data	Mean 2'	
	Mean 10'	
	Max. of the last minute	Associated direction to the max-speed
	10' variability (extremes picked out from 3") means	
	Past wind	---

## ● Options

- Plain heating system.
- Mast and lighting system.
- Solar power supply kit for transmitter (solar panel, battery and protective housing).
- LCD display (instantaneous data).
- Indicator display INT300, INT320 or VISUVENT PC

DEGREANE HORIZON reserve the right to change above mentioned specifications without prior notice

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