



## XARIA-C

- XARIA-C keeps all principles implemented in the XARIA Range making possible to have high performance equipment getting the ability to adapt to the range of environmental and operating constraints.
- This automatic station is suitable for the needs of measurements and exploitation of the climatologic networks and the isolated sites.
- XARIA-C is basically equipped with six sensors inputs (Temperature, Humidity, Raingauge, Wind speed & direction, Global radiation). A transmission channel (RTC or GSM) is available.
- XARIA-C authorizes the automatic diffusion of its data in programmed mode or alarm mode.
- The acquisition of additional measurements is possible by using extension field bus (CAN) or/and Cibus.



*XARIA-C Module  
(Model with connectors)*



*Example of integration: autonomous station, Rainfall, Temperature, Humidity*

## ● Functions

XARIA-C allows the acquisition of the following meteorological parameters: Temperature, Humidity, Rainfall, Wind speed & direction, Global Radiation.

By using fieldbus, measurements can be extended to the following parameters: Atmospheric pressure, Soil moisture, Cibus Wind etc...

Recording of data is made each: 1 mn, 6 mn, hourly (30 mn in PATAc mode)

XARIA-C manages the following modes of exploitations:

- Local Mode: on LCD screen integrated into the system module and/or diffusion of data each minute (ASCII chain with CAOBS format) via a fieldbus module.
- Remote Mode: Transmission of the memory data on receipt of request from the concentrator platform or directly from the station, following the software configuration in memory.
- Alert Mode: The transmission of information is initialized by detection of an alert level on several parameters.
- Special Mode (PATAc type): XARIA station can be called by a concentrator via the phone network under PATAc protocol.

## ● Characteristics

### Acquisition type

---

Type	Measure Range	Sampling period	Elaborated measurement
Temperature	40°C to + 60°C	5 seconds	1 minute
Humidity	0% to 125% RH	1 minute	1 minute
Rainfall	0 to 15Kg/m <sup>2</sup>	Each tip	1 minute
Global radiation	0 to 90 000J/m <sup>2</sup>	3 seconds	1 minute
Wind speed	0,4m/s to 80m/s	500 ms	Average value 3sec, each 500ms
Wind direction	360° 36 sectors	500 ms	Average value 3sec, each 500ms

### Housing

---

XARIA-C module is provided in an aluminum waterproof box IP 66.  
It can be integrated in different type of boxes according to environmental and exploitation constraints.

### Connections

---

In basic version XARIA C module is supplied with cable glands to connect sensors and power supply.  
In option it is proposed a waterproof connectors version.

### Power supply

---

11V to 15VDC min 9mA/Max 50mA

### Communication means

---

Laptop PC with RS232 Port, RTC V32 Modem or GSM Modem

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