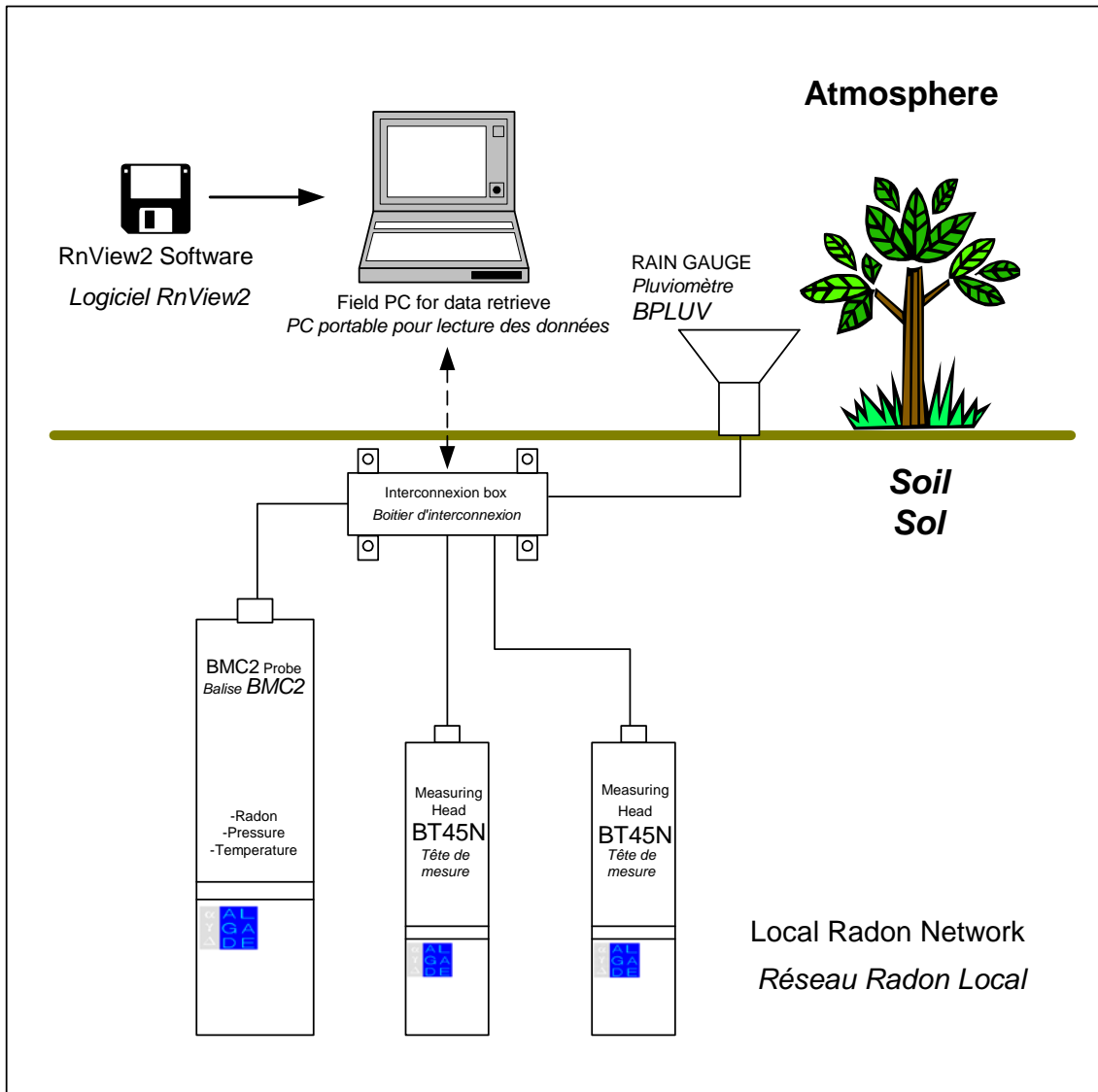


# GEOPHYSICAL NETWORK BARASOL Multi Sensors

○ TO OPTIMISE YOUR RADON MEASURING SITE



## □ APPLICATIONS

- Measurement of radon in the ground
- Geophysical studies
- Earthquake predictions
- Prediction of volcanic eruptions

Specifications



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- ❑ The complete system enables the Barasol MC2 probe to record :
  - 3 radon measuring points on a site with a diameter of about 50m,
  - rainfall,
  - atmospheric pressure,
  - soil temperature.
- ❑ All the data are recorded in the BARASOL MC probe which acts as acquisition centre for all the internal and external sensors.
- ❑ Offset power supply and PC connection make it possible to read back the data contained in the BARASOL MC probe without having to remove it from the environment it is measuring.
- ❑ Permanent connection by modem, radio modem or modem satellite.
- ❑ Operating temperature : -20°C to +50 °C.



### **1 - Barasol Multi Sensors BMC2 :**

Specifications of radon probe BARASOL MC2 are described in the dedicated technical data sheet.

### **2 – BT45N Radon mobile head :**

The radon mobile head uses the measuring principle of the BARASOL MC probe from which it is derived.

The pulses are transmitted via the interconnection box to the BARASOL MC probe which records them.



**Power supply :**

From external power supply .

**Sensitivity of measurement :**

50 Bq.m<sup>-3</sup> per imp.h<sup>-1</sup> (typical value)

**Length of cable (link to box):**

From 2 up to 25 m.

**Casing :**

Casing made of fibreglass and corrosion-resistant stainless steel.

Grab handle.

Protection index: IP 68.

**Dimensions :**

Height: 350 mm

Diameter: 61 mm

**Weight :** 1.5 kg

**3 - Interconnexion box and offset power supply :**



- 1 connection cable with a BARASOL MC probe,
- 2 inputs for the connection of two offset radon measuring sensors,
- 1 input for the connection of a rain gauge,
- 1 rs232 connector for connection to a PC or to a communication system,
- housing for 6 x 1.5V type D alkaline batteries. ( 2 batteries for BMC2 + 2 batteries per radon measuring head.

**Casing:**

Metal casing with fixing holes.

Protection index: IP 68.

**Dimensions:**

Length: 225 mm

Width: 125 mm

Height: 95 mm

**Weight:** 2.5 kg. (with 6 Alkaline batteries)

**4 – Rain Gauge :**

Tipping bucket rain gauge. The pulse created by the tipping action is transmitted via the interconnection box to the BARASOL MC probe, which then records it.

**Sensitivity of measurement :** 0.20 mm of water per tipping action

**Length of cable ( link to the box ) :** 6 m as standard.



**Casing :** Plastic casing with metal base.  
Holes for fixing it to the ground.

**Dimensions:** Height : 350 mm  
Diameter : 250 mm

**Weight:** 2.1 kg.

**5 - RnView2 User Software :**

**Monitoring:**

- initialisation of the sensors,
- reading the whole of the recordings contained in the probe memory,
- stopping the recording during the transport or temporary storage of the sensor.

**Visualisation :**

- display of any two curves in each window ( e.g.: radon and temperature ),
- display of three windows ( maximum ),
- display of a window containing binary information ( shocks and battery defect ),
- change of time scale on all windows simultaneously,
- change of ordinate scale for the curve of your choice,
- display of values by cursor,
- smoothing of curves by sliding average (1 to 10 points).

**Conversion :**

- Conversion of data into text file tabulated to be reread in a spread sheet or by external mathematical processing software.

## 5 - RnView2 User Software :



### Printing :

- Printing of the current screen (copy of the screen).

### Delivery package:

- CD Rom,
- The software is delivered with a standard interface cable to PC,
- One documentation file of all the documentation concerning products in the BARASOL MC2 range.

## 6 – To order :

P-542-103	Interconnexion box
P-542-106	RnView2 User Software
P-542-108	Rain Gauge
P-540-109	Lithium D type Battery ( needs P-540-112 )
P-542-110	Radon Mobile Head
P-540-112	Metallic contact for D type Lithium battery
P-542-120	<b>BMC2 Radon probe</b>
P-542-121	Cable BMC2 to PC 2 m length
P-542-122	Lithium 2D type Battery
P-542-123	BT45N to Interconnexion box cable 2 m to 25 m length
P-542-124	BMC2 to Interconnexion box cable 2 m to 10 m length
M-542-104	BMC2 protective cover