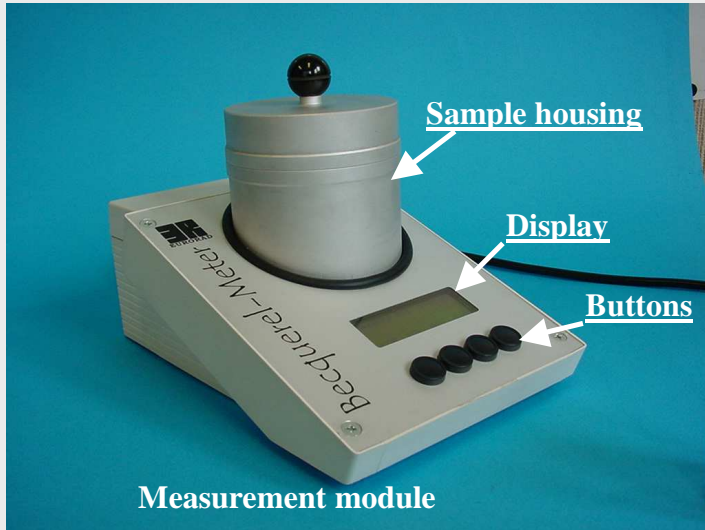


# BECQUEREL METER

## for the absolute measurement of gamma-ray activity



This new generation Becquerel meter has been especially developed for an easy measurement of the absolute gamma-ray activity, even by non specialized personnel. It has been designed for the measurement of the gamma radiation contamination of food, plants, soil and others liquid or solid products.

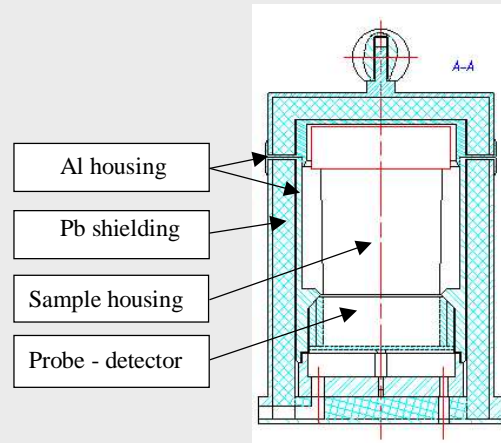
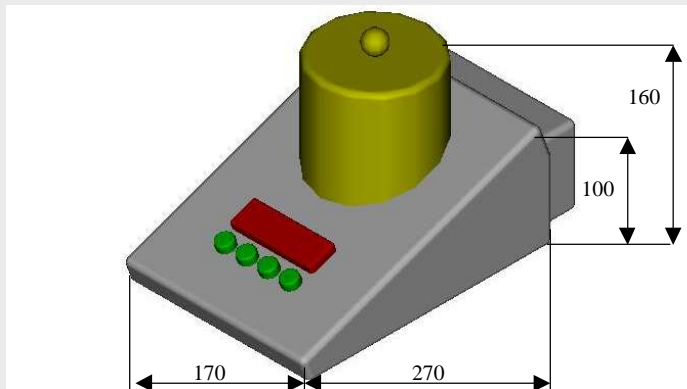
The compact set-up incorporates the most advanced design in radiation counting, i.e. scintillation counter operating without photomultiplier tube.

It allows quick quantification of contamination level, taking into account natural radioactivity. This instrument allows the measurement of:

- the gamma-ray activity in Becquerel/liter or kg, the measurement error is  $\pm 10\%$  for  $^{137}\text{Cs}$
- the spectrum of the emitted radiations, since it incorporates a multichannel analyser, via a PC parallel link connection.

### Main characteristics

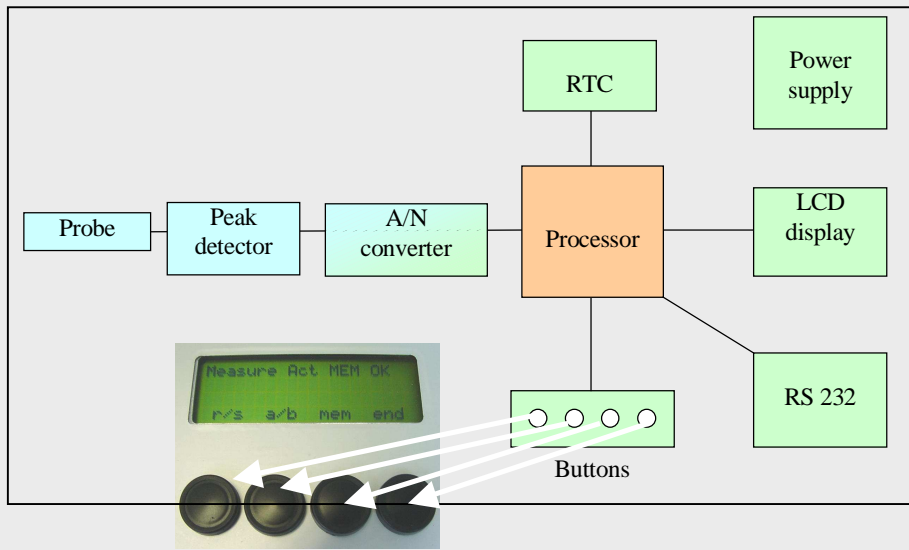
- Dimensions: all in mm



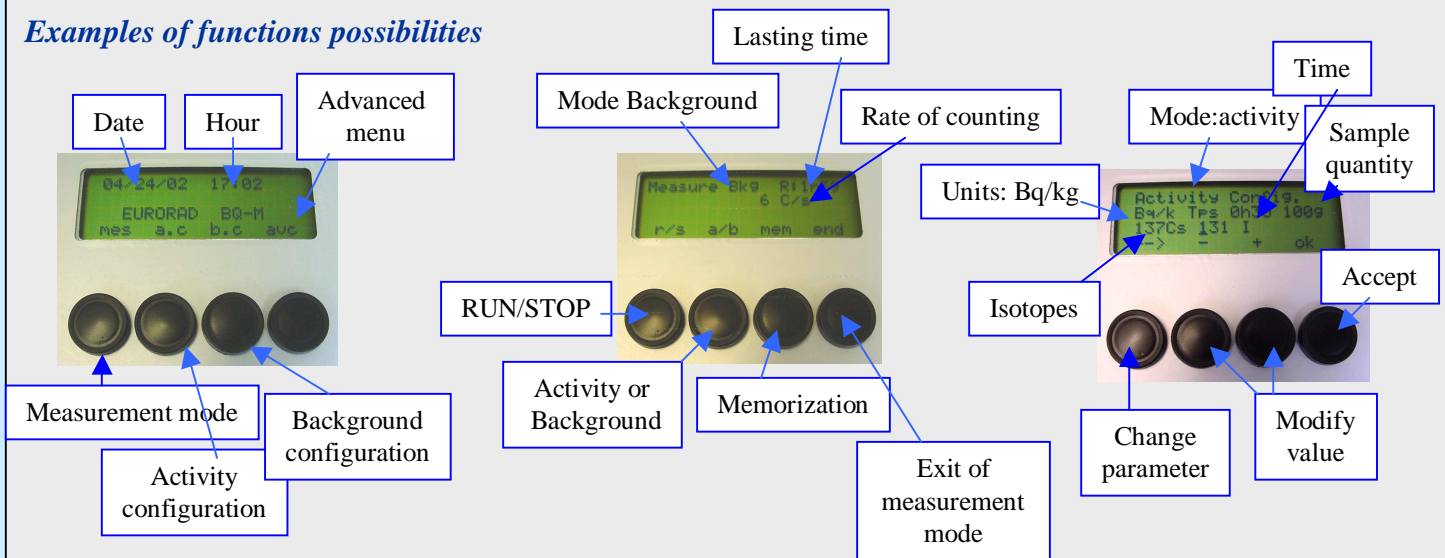
- Weight = 6 kg
- Operational conditions:
  - grid connected: 100-240 V ac
  - temperature: -10 to +50 °C (calibration performed at RT)
- Sample housing: waterproof
- Sample container: standard plastic container of 100 cm<sup>3</sup> volume
- Measurements:
  - in Bq/l or Bq/kg with a choice of radioactive element,
  - total activity, lasting time, % of radio-elements found,
  - control and memorizing of measurement parameters,
  - spectra acquisition,
  - transfer of data to PC.



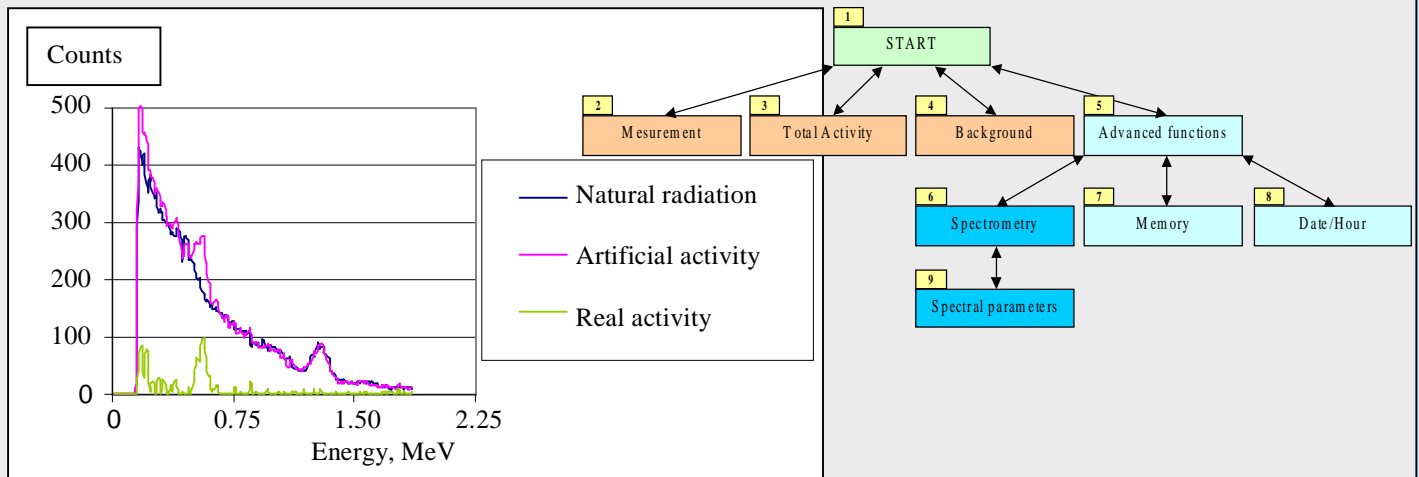
## Synoptic diagram of Becquerel meter



## Examples of functions possibilities



## Examples of spectra registered with Becquerel meter and associated software diagram



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