

BAB-E

α/β Environmental particulate monitor

- Static and dynamic compensations of ambient gamma radiation and natural radon/thoron progenies
- Robust and durable
- Uniform sample print for more accurate measurement
- · Low dust retention sampling line
- Available as static or relocatable version
- Optional gamma dose rate or noble gas
- Optional local and remote alarm
- Compatible with DataExpert supervision software



The BAB-E particulate monitor is specially designed for the continuous monitoring of α and β artificial radioactive particulate activities.

BAB-E is housed in a durable, weatherproof cabinet engineered to survive the harshest environmental conditions.

Innovative background and radon compensation technics allows more accurate measurement and minimize false alarm rate

Main applications are:

- > monitoring of very low particulate concentrations in the environment
- > working place monitoring, as a fixed or mobile unit
- > environmental monitoring
- > ventilation duct air monitoring
- > follow-up of in-air radon and thoron daughter concentrations...

PHYSICAL CHARACTERISTICS -

• **Detector:** large area dual silicon diode, 2 x 360 mm²

• Energy range: α: 2 to 10 MeV - β: 80 keV to 2 MeV, adjustable artificial α ROI

• **Measuring range:** α: 10⁻³ to 5.10⁴ Bq/m³; β: 10⁻² to 5.10⁴ Bq/m³

• Pneumatic circuit: inlet: sampling nozzle

• Outlet: 32 mm nozzle

• Pump flow rate: 8 m³/h

ENVIRONMENTAL CHARACTERISTICS -

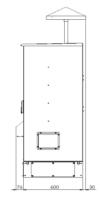
• Temperature range: from -20 ° C to +45° C

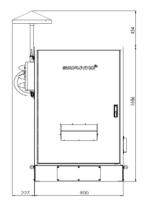
• **IP index:** IP 54 • Air conditionner as an option

MECHANICAL CHARACTERISTICS

• Overall dimensions:

- Height: 2140 mm
- Width: 1127 mm
- Depth: 706 mm
• Total weight: 150 kg





ELECTRICAL CHARACTERISTICS -

• Power supply: Mains single-phase 230V-50Hz

• Consumption: 1500 VA

• Electromagnetic interference:

- emission: EN 61000-6-4

- immunity: EN 61000-4-3, level 3

- INTERFACES -

- Display: 3 lights and 1 horn (90 dB, 1 m distance, internal acknowledgement). Local alarm unit as an option
- Outputs:
 - relay outputs for local and remote display unit
 - 3 analog outputs 4 20 mA
 - 2 x RS 485 to JBUS Modbus protocol
 - Ethernet connection

ACCESSORIES & PRODUCTS REFERENCES

- Wireless data link, (SkyLink radio, ShortLink radio)
- Gamma GM-xN probes for environment dose rate monitoring
- Compatible with DataExpert Supervision software
- Optional: detector head lead shielded reducing background influence in accident conditions