

BAB-A4 2000 R

α , β aerosol in-air monitor

- The **BAB-A4 2000R** monitor is used to continuously measure the concentration of α and β artificial radioactive aerosols, in presence of natural radioactivity due to Radon, Thoron and γ background noise.

Applications are:

- ✓ working place monitoring, as a fixed or mobile unit
- ✓ environment monitoring
- ✓ ventilation duct air monitoring
- ✓ follow-up of in-air radon and thoron daughter concentrations...

Technical characteristics

- **Detectors** : dual large PIPS silicon diodes for γ compensation
- **Air flow** : 3.1 to 6 m³/h with permanent control
- **Alpha range** : 10⁻³ to 10⁵ Bq/m³
- **Beta range** : 10⁻² to 10⁵ Bq/m³
- **Detection limits (Bq/m³)** : (at 6 σ , 3 h, background noise: 100 nSv/h, Radon < 1 Bq/m³)
 - ✓ 0.04 Bq/m³ in β
 - ✓ 0.01 Bq/m³ in α
- **Dimensions & weight** :
 - ✓ detection module: 55 x 26 x 45 cm - 29 kg
 - ✓ pump: 17 x 18 x 25 cm - 11 kg
 - ✓ mobile version: 50 x 111 x 44 cm - 56 kg
- **Power supply** : 230V, 50Hz; 400 VA
- **Temperature range** : +5°C to +40°C
- **Alarm** :
 - ✓ local and/or remote signalisation
 - ✓ visual and audible alarm, with test button
 - ✓ remote alarm unit connectable in chain
- **Display** : alpha, beta and radon daughter activities. Gamma dose rate estimation and BAB status
- **CE Conformity** : EMI, level 3*
- **Outputs**: double JBUS links, Ethernet TCP/IP, analog and relays



- ✓ Natural gamma background, Radon and Thoron real time compensation
- ✓ Automatic filter paper replacement
- ✓ Memory: 21 days with one measurement per minute
- ✓ Automatic restart after main cut-off
- ✓ Better reactivity thanks to the 6 m³/h pump debit rate
- ✓ Very good immunity to industrial EM perturbations
- ✓ 1500 equipment in operation worldwide