

BAB-A4 2000 R

α , β aerosol in-air monitor

- The **BAB-A4** monitor is used to measure continuously 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 fixed or mobile unit
- Environment monitoring
- Ventilation ducts air monitoring
- Chimneys rejections monitoring
- Follow-up of in-air Radon and Thoron concentrations...

The device is particularly adapted for network (double JBUS links, Ethernet TCP / IP) for the radiological monitoring of the installations

Technical characteristics

Detectors	: dual silicon diodes (γ compensation)
Air flow	: 3.1 to 6 m ³ /h with permanent control
Alpha range	: 10 ⁻³ to 10 ⁵ Bq/m ³
Beta range	: 10 ⁻² to 10 ⁵ Bq/m ³
Detection limits (Bq/m³)	: (at 6 σ , 3 h, background noise: 100 nSv/h, Radon < 1 Bq/m ³) 0.04 Bq/m ³ in β 0.01 Bq/m ³ in α
Dimensions & weight	: <u>Detection module</u> : 55 x 26 x 45 cm - 29 kg <u>Pump</u> : 17 x 18 x 25 cm - 11 kg <u>Mobile version</u> : 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 signalisation connectable in chain
Display	: Volumic activities and status
CE Conformity	: CEM, level 3



- Natural Gamma background, Radon and Thoron real time compensation
- Automatic filter paper replacement
- Memory: 21 days with a 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