

CV28 N

α and β cloth contamination monitor

- **CV28N** is a fixed monitor designed for simultaneous measurements of α , β and γ contamination on staff leaving a controlled area, on objects or clothes.

➤ Technical characteristics

- **Detector type:** Gas flow proportional counter
- **Surface sensitivity in c/s for Bq/m², typical values according to ISO 7503 :**

✓ 156keV	¹⁴ C	: 20
✓ 225keV	¹³⁷ Cs	: 22
✓ 511keV	³⁶ Cl	: 55
✓ 709keV	⁹⁰ (Sr+Y)	: 60
✓ 318keV	⁶⁰ Co	: 30
- **Output α (2π) – ²³⁹Pu:** 50%
- **Probe detection surface:** 175 cm²
- **Detection limits according to ISO 7503** (first and second level error: 2.5%):

✓ α : ²³⁹ Pu	0.02 Bq/cm ²	
✓ β : ³⁶ Cl	<0.2 Bq/cm ²	⁶⁰ Co \leq 0.4 Bq/cm ² in a background of 0.1 μ Sv/h
- **Dimensions**
 - ✓ Box: 334 x 234 x 165 mm,
 - ✓ Ergonomic rotating cane, diameter 600mm, weight: 13kg
 - ✓ Probe: 210 x 135 x 30 mm + handle, detection surface : 175 x 100 mm, weight: 0.9kg
- **Constraints**
 - ✓ Gas supply: Ar-CH₄ (90%-10%) \approx 1l/h or Ar-CO₂ (90%-10%) \approx 1l/h, overpressure 0.2bar, temperature range: +5°C to +45°C, max relative humidity 95% without condensation
 - ✓ Power supply : 230V-50Hz (or 110V-60Hz on demand), consumption: 25VA
- **Alternatives**
 - ✓ CM28: α , β and γ contamination monitor for hands and tools
 - ✓ CC28: Contamination monitor for feet
 - ✓ CS28: Contamination monitor for floors, mounted on an ergonomic carriage with speed control and double detector with permanent background compensation.



- CTHIR homologation
- α and β clothes contamination measurement
- β – X environment monitoring
- Automatic or manual β contamination threshold
- β environment compensation.