



CW28-N

α , β and γ floor contamination monitor

- The **CW28-N** was designed to control the possible contamination of floors. The α , β and γ particles are simultaneously detected and discriminated with an automatic background compensation. The device can be moved around very easily thanks to its 4 pivoting wheels.



Technical characteristics

• Detector:

- ✓ gas flow proportional counter (bottle free in operation)
- ✓ probe area 1,200 cm²
- ✓ distance to the floor : Low position: 12 mm
High position: 47 mm

• Detection limits : for Co⁶⁰ β source, background 0.1 μ Gy/h :

Time constant	1.2 s	1.8 s	2.1 s
Detection limit in low position (Bq/cm ²)	0.2	0.15	0.14
Detection limit in high position (Bq/cm ²)	0.34	0.27	0.24

- **Measuring units:** c/s, Bq or Bq/cm²
- **Alarm thresholds (with different sound):**
 - ✓ too high and too low background,
 - ✓ Alpha: preset,
 - ✓ Beta/Gamma: preset or automatic
- **Gas:** Ar-CH₄ or Ar-CO₂ (90% - 10%). Flow rate: 2 litres/hour
- **LCD Display size:** 40 x 72 mm
- **Dimensions:**
 - ✓ handle unfolded: 959 x 321 x 1,233 mm (H x W x D)
 - ✓ handle folded: 416 x 321 x 1,177 mm (H x W x D)
- **Weight:** 20 kg

- ✓ **Large surface detector**
- ✓ **Autonomy (gas and electrical) : more than 8 hours. No gas bottle on board. Charging is done only at night**
- ✓ **Little maintenance: only mylar should be changed when detector is pitched.**
- ✓ **Unsentive to shock and vibration (reduced false alarm)**
- ✓ **Improved sensitivity thanks to high efficiency detector and low noise background (α : < 0,1 c/s; $\beta\gamma$: 20 c/s for 100 nGy/h and 1,200 cm²)**
- ✓ **Password-protected settings**
- ✓ **Background monitoring and compensation**
- ✓ **Different audible alarms for α and $\beta\gamma$ detection**
- ✓ **Three measuring modes: background measurement, contamination control (detection) and user-triggered accurate activity measurement of previously detected contamination**