



AVIOR[®]-2

Desktop Dose-Rate and Survey Meter



Nuclear



Healthcare



Homeland
Security
& Defense



Labs &
Education



Industrial and
Manufacturing

OVERVIEW

The AVIOR-2 is a versatile alarm desktop, portable or wall mounted dose-rate and survey meter for the contamination control and dose-rate assessment.

The extensive experience of MIRION (Canberra™) in nuclear measurement combined with the exhaustive users' feedback drove us to create a new product for better supporting most situations encountered in the field such as laboratories, industrial sites, nuclear power plants, open air yards and emergency situations.

AVIOR-2 is equipped with two CSP™ inputs and features a simultaneous display of both probes. When an Alpha/Beta CSP probe is connected, the display automatically toggles to dual screen and provides user with discriminated alpha from beta measurement results, thus allowing to check and measure contamination twice as fast as most instruments available on the market.

A specific Hand/Foot measurement mode offers the ability to control the alpha and beta contamination on one hand and one foot at the same time. It is an ergonomic and affordable solution when available footprint does not provide sufficient space for traditional Hand/Foot bigger monitors.

KEY FEATURES

- Measurement of contamination and dose-rate
- Two simultaneous probe channels
- Dual alpha/beta display for each probe
- Customized alarm set-point for each connected probe
- Multiple measurement modes: Frisking, Scaler-Timer and Go-NoGo
- Specific OneHand/OneFoot mode with body detection and automatic background management
- Manual background deduction for net measurement of contamination
- Backlit graphical digital display
- Analog-like bargraph with digital display
- Back-up built-in rechargeable battery with no memory effect
- Rugged, light weight and easy to use
- Upgradable product through firmware upgrade

RELATED PRODUCTS

- **CSP Probes** : SAB-250, SABG-464, SPAB-15, SG-1R, SG-2R, SAB-100, SAB(G)-100, SA-100, SB-100, SA-20, SB-20, SX-2R...

PHYSICAL CHARACTERISTICS

- Units displayed (depending on probe): c/s, Bq_{eq}, Bq_{eq}/cm², Sv/h, Sv_{eq}/h
- **Alarm Threshold:**
- CSP probe : 10 values for each unit to display, stored in probe memory. Each value is editable via PC setup software CSPS™ or directly on AVIOR-2
- **Response Time:**
- As fast as 1/4 s for bargraph display depending on probe, on a semi-logarithmic scale
- 1 s for smoothed digital readout display

ELECTRICAL CHARACTERISTICS

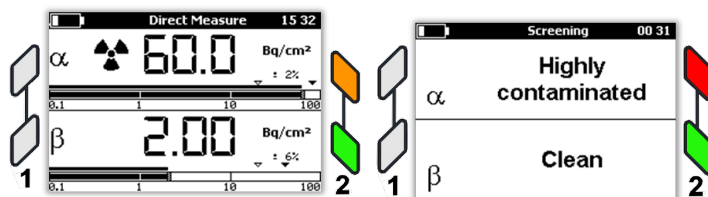
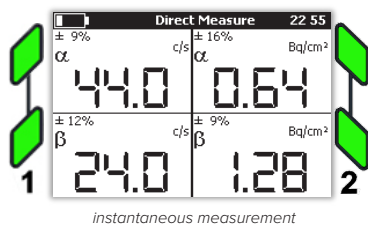
- Built-in rechargeable Li-ion battery pack
- Battery Life with Backlight: (Maximum/turned off): 31/70 hours one SAB-100 connected, 29/60 hours with SA-100 and SB-100 connected
- Built-in charger
- Universal Mains power input, 100–240 V ac, 50/60 Hz. Rear-panel IEC-type connector. Cordset included
- Display of remaining charge with Battery pictogram

ENVIRONMENTAL CHARACTERISTICS

- Operating temperature: -20 °C to +50 °C
- Storage temperature: -25 °C to +60 °C
- Ingress protection: IP 54

MECHANICAL CHARACTERISTICS

- **Housing:**
- Molded rugged Polycarbonate
- **Dimensions:**
- 184 x 105 x 105 mm (L x W x H)
- **Weight:**
- 950 g, battery included
- **Connector for external probes:**
- S 104 A066 137+ Fisher socket (CSP)



FUNCTIONAL CHARACTERISTICS

- Two simultaneous CSP probe channels
- Specific OneHand/OneFoot mode with body detection and automatic background management
- **Display:**
- Grand DISPLAY: Large LCD display with constant backlight
- **Alarms:**
- Audible: > 85 dB(A) at 30 cm
- Visual: Flashing alarm pictogram and LED for each channel (Red, orange, green)
- **Keyboard:**
- Ruggedized keyboard with 5 buttons featuring primary and secondary function (2 seconds): Enter (Power on), Up arrow (Backlight), Down arrow (Audio on/off), Left arrow (Lock), Right arrow (Data Log)
- **Operating Control:**
- Complete and automatic self-test when switching on. Periodical control of main functions when in use
- **Wall Mounting:**
- Back panel with dedicated print for wall accessory
- **Norms :**
- EMC: Conform
- IEC: Conform to IEC60846-2002 and IEC60325-2006
- CE: Conform



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