

Hand-Foot-Clothing Monitor

Model VLB-202

The award winning design will make this stainless steel, ergonomic hand-foot-clothing monitor an eye-catcher in every department. The patented two-sided hand detector enables a revolutionary slimline design, so that this monitor will even fit in the smallest area. The VLB-202 is available in a Gamma radiation modus or a Beta radiation modus. The monitoring is based on robust and failure-safe plastic scintillation detectors.

Both use and operation of this monitor are simple and highly self-explanatory. The LCD display shows instructions and results. All settings are software based and can be adjusted in an easy to understand menu. A key operated lock will block unauthorised access to the setting menu.

Specifications:

- Single channel plastic scintillation foot detector, 1050 cm²
- 1 Double-sided hand detector, each side 250 cm²
- The hand detector can also be used as clothing detector
- Automatic background subtraction (selectable)
- Read-out in CPS or Bq/cm² (isotope selectable)
- Measuring time adjustable
- Alarm thresholds adjustable




VEENSTRA
INSTRUMENTS

'Special design makes this monitor fit in the smallest areas'



Specifications VLB-202

- **Number of channels:** max. 2 channels up to 10.000 cps, each channel can be switched on or off separately in case of malfunction
- **Detectors:** hand-detector 240 cm², sensitive on two sides foot-detector 1050 cm²
- **Clothing detector:** The hand-detector functions as clothing-detector when lifted from the VLB-202. Lifting the detector triggers a micro switch, which automatically switches the VLB-202 in the correct mode.
- **Display:** Graphic LCD display 160 x 160 pixels, 60 x 60 mm. The display is equipped with a backlight.
- **Keyboard:** 3 keys: ARROW UP, ARROW DOWN, ENTER
- **Parameter settings:** Secured with key switch.
- **Inputs:** (Optional) 1 movement detector (Optional) 1 stop background measurement
- **Outputs:** Normally Open potential free contact. This contact is active in case of contamination alarm. Normally closed potential free contact. This contact is not active in case:
 - Not ready to measure.
 - Minimum alarm
- **Interface:** RS-232 PC interface
- **Temperature:** 0 - 40°C
- **Rel. Humidity:** 90% max, non-condensing
- **Power supply:** 110-220-240V, 50/60Hz, 15W
- **Dimensions:** 400 x 750 x 1250 mm (W x L x H)
- **Measurement time:** Adjustable between 1 and 99 seconds. During countdown every second is marked by a beep.
- **Background measurement:** Adjustable between 100 - 9999 counts. Default is 1000 counts. Measurements are stopped if:
 - Handswitches are activated
 - Movement detector is activated (optional)
 - Clothing detector is activated
 - The external contact "stop background measurement" is active (optional)Background measurements resume 10 seconds after the last of the above-mentioned conditions is deactivated. Background measurements are performed continuously but only once every 10 seconds a new background value is generated.
- **Background subtraction:** Detector specific according to factors determined during a background calibration cycle.
- **Minimum alarm:** Minimum alarm occurs when in a period of 10 seconds no pulses were received from one of the detectors.
- **Contamination alarms:** Per detector adjustable between 1 - 9999 CPS, default is 30 CPS. In Bq-mode adjustable between 0,1 Bq/cm² and 999 Bq/cm², default is 3 Bq/cm².
- **Isotopes:** F-18, Ga-67, Tc-99m, In-111, I-123, I-131, TI-201, Co-57, Co-60, Cs-137, TI-204, Am-241, P-32, Sr-89, Y-90

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