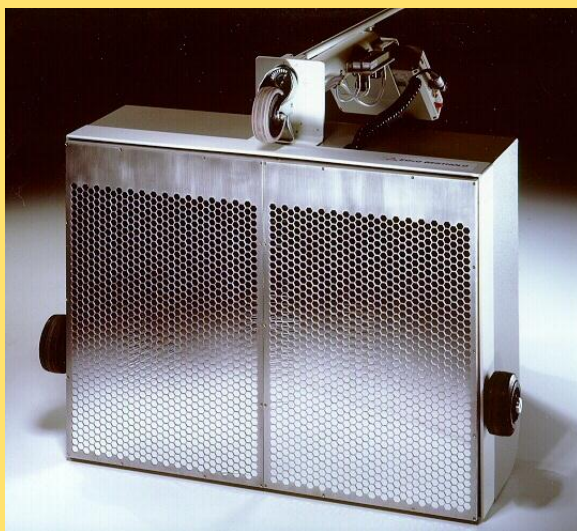


# Product Information

## LB 165/166 Floor Monitor

Open radioactive substances are used in Nuclear Medicine, in Nuclear Technology and in many fields of research. On this occasion the Radiation Protection requires an inspection of possible contamination of surfaces. The measurement concerning large areas, especially of floors, is a specific problem. Therefore BERTHOLD developed a Floor Monitor, which is based on a complete new generation of extreme large-area proportional counter tubes with 2000 cm<sup>2</sup> active surface.



The Floor Monitor is available in two versions: as the system LB 165 for  $\beta$ - $\gamma$  measurement with sealed Xenon-detector and as the system LB 166 for  $\alpha$ - $\beta$  measurement with P10-flow-through counter tube. This version has a gas supply containing a 3l (P10) gas bottle, pressure reducer and flow meter all integrated on the floor monitor. To protect the detector for uneven underground the monitor is adjustable in the height to maximum 18 mm. The minimum distance to the floor is 6 mm.

The measuring results are shown on the easy to operate battery Universal Monitor (UMo) LB 1230 with display, data storage and printer output. The LB 1230 with display is mounted on a column and allows best reading facilities.

### Technical Data

System	LB 165	LB 166
Counting gas	Xenon	P10-flow-through
Entrance window	12 $\mu$ m Titan	3 $\mu$ m Mylar
Background	approx. 200 cps	approx. 100 cps
$\epsilon$ ( <sup>90</sup> Sr + <sup>90</sup> Y) for $\beta$ 's	approx. 35 %	approx. 45 %
$\epsilon$ ( <sup>241</sup> Am) for $\alpha$ 's	N/A	approx. 25 %
Dimensions	700 mm x 600 mm	
Active area	570 mm x 380 mm	
Weight	24,5 kg	
(LB 166 complete)		

Subject to changes without prior notice

