



SuperSens LB 4430 / LB 5430



Berthold Super Sens LB 4430 / LB 5430

High Sensitivity – Low Background

The detectors LB 4430 and LB 5430 make it easy to reduce the necessary source activity. Their sensitivity to Gamma radiation is extremely high; however, this also means that they are highly sensitive to environmental radiation (background) and its fluctuation. The **Berthold Super Sens** detector is equipped with a lead shielding which significantly reduces interference due to background and its fluctuation. As a result of the lower „background level“ the required „useful signal“, and thus the necessary source activity, can be reduced even further.

The combination of high sensitivity **and** low background allows lowest source activities.

Essential Features

- Extremely high sensitivity to Gamma radiation
- Lead shielding to reduce the background
- Compact design
- Stainless steel housing

Fields of Application

- Limit measurements, e.g. on high-pressure reactors
- Level measurements
- Density measurements on large pipelines, e.g. dredgers and ore suspensions.

Technical Data:

	LB 4430	LB 5430
Dose rate for 1000 cps ⁻¹		
for Cs-137		0.14 µSv/h
for Co-60		0.2 µSv/h
Operating temperature		-20 ...50°C
Storage temperature		-40°C...+ 55°C
Mounting flange		ND 200, NP 6 DIN 2527
Housing		stainless steel
Evaluation units	LB 440, LB 441, LB 442, LB 444	
Protection type	ATEX Ex IIG EEx ib d II C T6 / EEx de II C T6 / IP 65	IP 65
Weight	approx. 54 kg	approx. 52 kg

Dimensions:

