Automatic Measuring Systems for the Environment
Technology Park Ljubljana

HANDHELD RADIATION MONITOR MRS 110B-1

- True portable instrument
- Battery powered
- Intelligent algorithm
- Integrated beeper
- Adjustable alarm
- counts/minute or SV/h
- Lightweight: 0.25 kg
- 100 hours of continuous operation on standard 9 V battery

Radiation monitor MRS 110B-1 is microprocessor-controlled instrument, designed for quick detection and primary measurements of X, β and γ radiation. Geiger Mueller probe with surface of 600 mm^2 is used as a detection device. Level of radiation is displayed on LC display. Instruments measures radiation in counts per minute (cpm) or SV/h. Beep is heard at each count. Alarm level can be observed on LCD; alarm dose rate is reported by an acoustic alarm.

Different alarming sound reports the saturation of GM tube. Measuring algorithm allows considerably low statistical error at background levels and fast response to the dose rate changes. Five-button keyboard is used to control and set the alarm level. Built-in rechargeable battery and separate battery charger allow low-cost maintenance and high autonomy of the instrument.

TECHNICAL DATA

Detector	cylindrical halogen Geiger Mueller tube type SBM 20
Window	30 mg/cm^2 max.
Surface	600 mm^2
Background	aprox. 10 imp/min (100 nSv/h)
Use	for X, β and γ rays
Units	cpm, Sv/h
Measuring algorithm	Fixed time changeable to fixed count at rates greater than 150 cpm
Display	default: 9999 cpm; extended: 999900 cpm
Alarm	adjustable
Power supply	NiCd rechargeable battery 9V 0,11 Ah (min. 24 h) or 9 V battery (min 100 hours)
Dimensions	150 x 80 x 30 mm (L x W x H)
Mass	250 g

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