

Monitor 5 G-M Count Rate Meter

The Monitor 5 is a handy, affordable general-purpose survey meter, capable of detecting alpha, beta, gamma and xrays. Its large detector and electronics are designed to provide high sensitivity and reproducibility of reading. The detector is a large area, thin-window Geiger-Mueller tube, located on the back of the instrument to provide the user a full view of the meter and the count light while scanning an area for contamination. Optionally, a beeper provides the audible indication of changing radiation rates.

Reliability, ruggedness and accuracy are not compromised by the Monitor 5's size and affordability. In addition, it incorporates features of many higher priced instruments on the market. For that reason, the Monitor 5 has found a wide acceptance in hospitals, research labs, schools; by miners, geologists, hazmat teams, and in general industrial safety applications.

Since the detector is not energy compensated, the recommended scale is in CPM. A tri-scale indicating 12.5 CPS, 0.5 mR/hr and 5 uSv/hr, is available as an option at no extra cost. The Monitor 5 is supplied with a soft padded pouch for extra protection.

Typical detection efficiencies compared to a 2π counter

| Source | Activity | MeV, avg-max | | Efficiency |
|-------------------|------------|--------------|-------|------------|
| ⁹⁰ Sr | 0.0201 uCi | 0.200 | 0.544 | 49% |
| ³⁶ Cl | 0.0214 uCi | 0.252 | 0.714 | 47% |
| ²¹⁰ Bi | 0.0255 uCi | 0.0390 | 1.161 | 36% |
| ¹⁴⁷ Pm | 0.126 uCi | 0.062 | 0.225 | 22% |
| ¹⁴ C | 0.13 uCi | 0.049 | 0.15 | 21% |



Specifications

| | |
|------------------------------|--|
| Accuracy: | ±15% of full scale referenced to ¹³⁷ Cs |
| Detector: | halogen-quenched uncompensated GM tube with mica window, 1.5 - 2.0 mg/cm ² 28.6 mm diameter |
| Energy Sensitivity: | gamma sensitivity is 25 CPS per 1 mR/hr referenced to ⁶⁰ Co. Smallest detectable level of ¹²⁵ I is approximately 0.02 uCi. |
| Meter: | analog, 0 - 500 CPM optional tri-scale available: 0 - 12.5 cps, 0 - 0.5 mR/h, 0 - 5 uSv/h |
| Range switch: | x 1, x 10, x 100, BATT |
| Audio: | internal beeper, may be switched off for silent operation |
| Operating temperature: | -20° to +50° C |
| Power: | one 9 V alkaline, NEDA 1604 A |
| Battery life: | up to 2000 hours of operation at normal background levels |
| Dimensions: | 72 mm x 145 mm x 38 mm (2.8 in x 5.7 in x 1.5 in) |
| Weight: | 240 g (8.5 oz) |

Accessories

| | |
|--------------|---|
| 62-103 | Check source, license-exempt 10 uCi ¹³⁷ Cs, embedded in a plastic disc |
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Features:

- ▶ Internal pancake-type GM detector
- ▶ Three decade response up to 50 mR/h
- ▶ Anti-saturation circuitry
- ▶ Audio indicator and red count light
- ▶ Exceptionally long battery life