

Technical Specifications of Portable Digital Dosimeter

Supply and demonstration of handheld portable and compact digital dosimeter with integrated MCA, preamplifier, spectroscopy amplifier, software, necessary accessories and hard carrying case

Features

Functions: Nuclide identification, spectrum analysis, dose rate calculation, total dose display, source finding

Integrated electronics: Multi-channel Analyzer, PMT preamplifier, spectrometry amplifier, power supply

Integrated detectors: 1.2" x 1.5" NaI(Tl) detector,
GM tube for high dose rates

Spectrometry System Specifications

Detector type: NaI (Tl)
HV-Bias: 50-1275 V selectable
Shaping type: digital filter
INL, top 99% <0.05 %
DNL, top 99% <0.1 %
Spectrum length: 1024 channels
Pileup rejection: 400 ns, pulse pair resolution
Throughput rate: >50,000 cps
Input rate: >500,000 cps
Spectrum memory: 50 spectra at 1024 channels
Real and live time presets: 1s-1,000,000s

Dose/Dose measurement Specifications

Sensitivity (^{137}Cs): >500 cps/ $\mu\text{Sv/h}$
Dose-rate range: 10 nSv/h - 1 Sv
Dose range: 100 nSv - 1 Sv
Energy range: NaI(Tl) : 20 keV - 2.5 MeV GM: 60 keV - 1.6 MeV
Alarm levels: Four preset levels

Special Features

Stabilization: Temperature stabilization; HV current stabilization; peak stabilization; Internal ^{137}Cs -reference source for stabilization
Calibration: Automatic energy calibration; Detector efficiency calibration; Automatic dose calibration
Language: English
Accessories: Rechargeable battery, External battery charger, AC adapter for stationary use, holster, carrying case

Display and Communication

Display type: Monochrome LCD 61mm x 43mm; backlight
Interface: RS232
Temperature range: -15°C - $+55^{\circ}\text{C}$
Protection: water proof, dust tight

Make/ Model: Target Identifier-NG or equivalent

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Pre Qualification Criterion:

1. Offered make and model should have a proven track record of at least 3 years in harsh industrial and underground mining environment. Documentary evidence of the above shall be submitted along with the offer.
2. Performance certificates of offered make and model of atleast 3 Indian users shall be submitted along with the offer. Contact details (phone nos. and email ids) of issuing authority shall be available on the performance certificate.
3. Price list/ Purchase Order copies of offered items shall be submitted along with the offer to justify the quoted rates.

Payment Terms:

1. 90% payment within 30 days from the date of receipt of material at our Stores and balance 10% against submission of a Performance Bank Guarantee (PBG) of equal value. PBG shall have one year validity in addition to six months claim period.

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