



The NMS017NG3

Neutron Dose Equivalent Monitor



The NMS017NG3

The NMS017NG3 is a portable neutron, dose and dose-rate, survey instrument ideally suited for field surveys.

Battery powered and hand portable, the NMS017NG3 is a neutron survey monitor that provides ambient dose equivalent measurements of neutron radiation from thermal to 14MeV.

The instrument utilises a 208mm polyethylene moderated sphere with a centrally located ^3He neutron detector and electronics housed within a rugged IP65 rated enclosure.

The NMS017NG3 has the following modes of operation:

- Dose rate
- Accumulated dose
- Count rate
- 100 / 300 / 600 second count
- Variable time
- Variable count

An external user port also allows:

- Setup and calibration configuration to be changed
- A TTL pulse output for connection to an external counter
- Connection for a remote display (optional)



Specification



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Range	0.1 μSvh^{-1} to 99999 μSvh^{-1}
Sensitivity	Reference sensitivity is 0.72 cps/ μSvh^{-1}
Linearity	$\pm 30\%$
Energy Response	Thermal to 14MeV
Gamma Rejection	3000:1
Display	64 x 128 pixel OLED display. Single range in units of μSvh^{-1}
Power Requirements	2 x MN1400 'C' type alkaline cells DURACELL recommended
Detector	SP9 ^3He thermal neutron detector
Temperature Range	-10°C to +35°C
Weight	6 kg
Dimensions	L: 320mm W: 208mm D: 260mm
Testing & Certification	Test Certificates Supplied
Battery Life	Over 120 hours continuous use with brightness set to minimum.
Case	
Inc. NMS017 & Batteries	10.8 kg
Dimensions	L: 530mm W: 320mm D: 325mm

Features

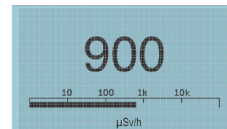
- He^3 Based Neutron Monitor
- Neutron Dose Rate
- Accumulated Neutron Dose
- Battery Powered
- Water Resistant Housing
- Variable Timer Counts Accumulated To Maximum of 999999S



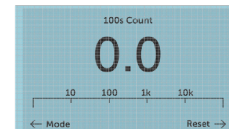
Accumulated Dose



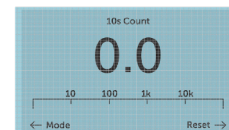
Count Rate



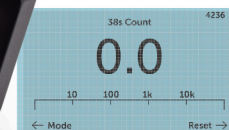
Dose Rate



Count Time



Variable Time



Variable Count



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