



DIAMON

DIAMON TECHNICAL DATA

Overall weight	6.0 kg (Low Energy version) 8.5 kg (High Energy version)
H*(10) rate measuring range	10 nSv/h - 100 mSv/h
Neutron energy range	Thermal - 20 MeV (Low Energy version) hundreds of MeV or higher (High Energy version)
γ sensitivity	$< 1 \cdot 10^{-4}$ counts per nSv ^{137}Cs $< 1 \mu\text{Sv/h}$ at 10 mSv/h ^{137}Cs
H*(10) calibration factor	3.5 $\mu\text{Sv/h}$ per cps (AmBe)
H*(10) response	1.03 counts per nSv (AmBe)
Connectivity	Ethernet, dedicated Wifi

DIAMON ANGULAR RESPONSE (over 4π)

IRRADIATION FIELD	VARIABILITY
Thermal neutrons	5.95%
Neutrons from DT reaction	2.10%
Neutrons from DD reaction	1.90%
Neutrons from ^{241}Am -Be source	3.30%

DIAMON SPECTROMETRIC CAPABILITY - EXAMPLE

NEUTRON SPECTRUM FROM ^{241}Am -Be (α, n) SOURCE

