DosExpert M

Radionuclide Dose Calibrator

- Reentrant ion chamber based
- Wide range of energy 25keV-40MeV
- 50µCi (1.85 MBq) - 5,4Ci (199.8 GBq) measurement range
- Original design
- Embedded software
- Touchscreen operation
- 50 isotope memory. 27 predefined 23 user programmable.
- Background subtraction function
- Automatic scaling

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Technical Specifications

Detector

Detector Shielding	: 4 mm lead shield around the ion chamber. Extra shielding is recommended for high energy isotopes.
Energy Range	: 25 keV – 4 MeV
Activity Range	: 50 μCi (1.85 MBq) – 5.4 Ci (199.8 GBq) of Tc-99m
Chamber Gas	: Argon
Chamber Pressure	: 11 bar
Chamber Bias Voltage	: 280 V
Chamber Sensitivity Deviation	: 2%
Well Dimensions	: Ø 52 mm x 205 mm

User Interface

Screen	: 5.7" monochrome LCD
Resolution	: 320 x 240
Control	: Resistive Touch Screen
Response Time	: < 4 seconds for routine nuclear medicine doses 8 seconds for maximum activity

Metrological Specifications

Geometric Deviation	: <3% (2-10 ml of 1,05 GBq Tc-99m)
System Linearity	: ±2% (2 MBq – 200 MBq Tc-99m)
Repeatability	: ±2% within 96 hours with constant environmental conditions
System Accuracy	: ±3% (May be effected by factors such as source purity, geometry, etc.)

General Spesifications

Operating Temperature	: 15 – 40 °C
Relative Humidity	: ≤ 80%
Line Voltage	: 100 – 240 V
Line Frequency	: 50 – 60 Hz
Power Requirement	: 30 W
Length of Data Cable	: 190 cm
Weight of the Chamber Unit	: 10 kg
Weight of the Interface Unit	: 1.3 kg