Dose Calibrator Model VDC 505

This state of the art dose-calibrator combines the best of two worlds. It has the extensive functionality of a software driven device like the Veenstra VDC-405. It has the robustness of firmware like the Veenstra VDC-404. So if you do not want to introduce another PC in your department or Hotlab, the VDC-505 is the best alternative.

Due to its special V-shaped design it offers a large touchscreen for easy read-out and operation. The graphical interface is very user-friendly with special coloured markings to guide its users through the most important routines. Another example of the ergonomic design are the inwards mounted connectors so that the device in spite of its size still requires a minimum of workspace. An optional special wall-mount stand is available.

In terms of connectivity the VDC-505 is state of the art. The dose calibrator can be integrated in a network (Ethernet base) and connected to a PC or extra display. Furthermore the system supports a range of label-printers In terms of functionality the VDC-505 is well equipped for both vial and syringe measurements, including future dose calculations. Furthermore this model offers a complete set of calibrator quality control routines and protocols for daily and quarterly checks. These QC reports can then be downloaded to a PC by a standard RS-232 or even the optional Ethernet interface.

All VDC dose calibrators come as standard with one well liner and dipper. Optional extras available are:

- Extra lead shielding
- Mo-99 breakthrough set
- Copper dipper
- Extra well liner
- Extra dipper
- Label printer



'A complete set of calibrator **quality control** routines and protocols for a daily and quarterly chec'



Specifications controller / readout unit

Readout: Measuring range:

Display: Control: Operating system: Peripheral interfaces:

Defined isotopes: User definable isotopes:

Pre-set isotopes: Temperature range: Humidity: Power: Dimensions: Weight: Curie/Becquerel (touch screen selectable) 0.001 MBg - 200 GBg (Tc-99m) 0.01 µCi – 6000 mCi (Tc-99m) 8.4" TFT display, 800 x 600 resolution 8.4" touch screen Microsoft ® Windows XP Embedded 1 x standard RS-232 for label printer 1 x standard RS-232 for PC Ethernet (optional) External monitor (optional) Footpedal switch (optional) > 50 touch screen selectable isotopes 100 user definable isotopes (name, half life, calibration factor) 15 pre-set isotopes 0°C - 40°C / 35°F - 105°F Max. 90% rel. humidity, non condensing 85 - 264V ~, 47 - 63 Hz. / 90 Watt 280 x 370 x 240 mm 4.5 kg

Specifications detector unit

Ionisation chamber: Ionisation voltage: Well size: Saturation:

Resolution:

Energy range: Lead shielding: Linearity:

Electrometer accuracy: Battery test accuracy: Temperature coefficient:

Reproducibility: Overall accuracy:

Response time:

Ranges: Isotope factor:

Bias correction: Calibration: Zero adjustment: Background subtraction: Battery test: Interface: Power supply: Cable: Dimensions: Weight: Pressurised (12 bar argon) 150 V lithium batterv 60 mm Ø x 250 mm > 200 GBa (Tc-99m) > 6 Ci (Tc-99m) 0.001 MBg 0.01 *µ*Ci 25 keV - 3 MeV 3 mm Pb \pm 1 % between 1 MBg and 200 GBq (Tc-99m) ±1% \pm 5 % 0.1%/°C between 10°C and 40°C at 5 MBq and up \pm 1% over 24 hours, stable conditions \pm 3 % dependant of specific calibration source and geometric variations Maximum 2 seconds for 95% of the end value Three ranges (auto ranging) **Digital adjustment** (library over 50 isotopes available) **Digital adjustment Digital adjustment Digital control Digital control Digital control RS-232C** 5 VDC, 250 mA 2.5 meters 150 mm Ø x 420 mm 15.5 kg

Detector units for special purposes:

Extended measurement range model Drop-through (sluice) model Different sized models



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ISO 9001: 2000 certified