

# CALIBRADOR DE DOSIS VDC-603



The new VDC-603 is dose calibrator available in the market today! It offers a simple and intuitive, three key operated, user interface. The small, efficient design and easy to use functionality is focussed on the measurement and checking of radio-active isotopes, both in vials and in syringes. The highly accurate and reliable read-out of the ionisation chamber is presented in the one-line, backlighted display: either in Becquerel or Curie. Easy and straight forward, so ideal for any laboratory or hospital environment where you only want to check the activity of 1 or 2 specific isotopes, without a need for quality control or printing. The VDC-603 is a basic digitised dose calibrator displaying the values in Curie or Becquerel. The dose calibrator will be delivered Including:

- Readout unit, model VDC-603
- Detector unit, VIK-202
- Dipper and Well liner
- Cables and manual

# CALIBRADOR DE DOSIS

## VDC-603



### **Specifications:**

- Activity unit : Curie / Becquerel (selectable)
- Activity indication : 1 kBq - 200 GBq or 0,01  $\mu$ Ci - 6 Ci. (Tc-99m)
- Display : One line 16 character LCD display
- Control : 3-key foil keyboard with acoustic signal
- Peripheral interface : No
- Defined isotopes : > 55 selectable isotopes
- User definable isotopes : 3
- Temperature range : 0°C - 40°C / 35°F - 105°F
- Humidity : Max. 90% rel. humidity, non condensing
- Power : 230 V, 50/60Hz, (115 V, 50/60Hz optional) 25 Watt
- Dimensions : 240 x 170 x 73 mm
- Weight : 0.9 kg

### **Detector unit**

- Ionisation chamber : Pressurised. (14 bar abs. Argon)
- Ionisation voltage : 150 V lithium battery
- Well size : 69 mm  $\varnothing$  x 280 mm
- Well liner (inside) : 57 mm  $\varnothing$  x 270 mm
- Saturation : > 200 GBq (Tc-99m), > 70 GBq (F-18)  
> 6 Ci (Tc-99m), > 2 Ci (F-18)
- Resolution : 0,001 MBq  
0,01  $\mu$ Ci

- Energy range : 25 keV - 3 MeV
- Lead shielding : 3 mm Pb
- Linearity :  $\pm 1$  % between 1 MBq and 200 GBq (Tc-99m)
- Electrometer accuracy :  $\pm 1$  %
- HV test accuracy :  $\pm 5$  %
- Temperature coefficient : 0.1%/oC between 10oC and 40oC at 5 MBq and up
- Reproducibility :  $\pm 1$  % over 24 hours, stable conditions
- Overall accuracy :  $\pm 3$  % dependant of specific calibration source and geometric variations
- Response time : Maximum 2 seconds for 95% of the end value
- Ranges : Three ranges (Auto ranging)
- Gain : Digital adjustment
- Bias correction : Digital adjustment
- Zero adjustment : Digital adjustment
- Calibration : Digital adjustment
- Background subtraction : Digital control
- Battery test : Digital control
- Interface : Standard RS-232C interface, no handshake 9600 Baud
- Power supply : 5 VDC, 250 mA
- Cable : 2,5 meters
- Dimensions : 150 mm  $\varnothing$  (bottom 160 mm) x 450 mm height
- Weight : 15,5 Kg