

Model CRC[®]-55tR Dose Calibrator

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- 20 cm (8 in.) VGA Touch Screen Color Display
- On-Screen Nuclide Name, Number, Activity, Measure, & Calibration Number Display
- Chamber Plug-and-Play Capability
- USB/PC Communications
- Software Upgrades via Ethernet Interface
- Automated QC Includes Constancy & Linearity Programs
- Compatible with Nuclear Medicine Management Systems



Part Number: 99-9111

Introduction

The CRC[®]-55tR Dose Calibrator provides the speed and accuracy you need to measure and prepare doses with the reliability and performance you expect. The design includes a menu-driven, color touch screen interface that is easy to learn and use. The time-tested, high-pressure well is designed to measure a dose as high as 6 Ci (250 GBq) with high accuracy. A large, easy-to-read display indicates nuclide name, number, activity, unit of measure, and calibration number. Data entry is fast via a touch screen interface with 28 programmable keys, and 80 user-selectable nuclides. In addition, reference sources in memory automatically decay to correct for current time and date. Built-in automated quality-control test and self-diagnostics with automatic zero and background subtraction make the instrument easy to use. The optional printer records full size records and patient tickets with peel-off labels for vial and syringe identification.

Specifications

IONIZATION CHAMBER: thin wall, deep well, high pressure, filled with 12 atm Ultra-Pure Argon

MEASUREMENT RANGE:

Type: Auto-ranging

Activity: 250 GBq (6 Ci), maximum

Resolution: 0.001 MBq (0.01 μ Ci), maximum

DISPLAY SCREEN: 20.3 cm (8 in.) VGA LCD color touch screen; direct reading (user-selectable or fixed) in Bq or Ci; displayed values include nuclide name (atomic symbol, mass number), calibration number

ACCURACY: better than $\pm 2\%$

LINEARITY: within $\pm 2\%$

RESPONSE TIME: within 2 seconds, 4 to 16 seconds for very low activity samples

PC PORT: Interface: RS-232 & USB; Compatibility: Standard Nuclear Medicine Management Systems, Ethernet

PRINTER (optional): RS-232 and USB interface, full-size test reports, measured results on tickets, Epson Roll, Epson Slip, or Okidata full-size dot matrix printer

DISPLAY CONSOLE: Size 42 x 23 x 27 cm (9.5 x 9.0 x 10.5 in.) (H x W x D)

Weight: 3.4 kg (7.5 lb)

WELL COUNTER: Size 43.8 x 17.2 cm (17.3 x 6.8 in) (H x D); Well Size 6.1 x 25.4 cm (2.4 x 10 in.) (Dia x L)

Weight: 13.6 kg (30 lb)