



Model 22D Dual Diode Monitor

The CNMC Model 22D is a compact, economical, battery-operated, dual-channel diode monitor designed for simplicity of operation without compromising accuracy and reliability.

The user-friendliness of the Model 22D is immediately apparent by its sloping control panel that allows operation from a convenient angle. Collected exposure data from both channels is read simultaneously on two large, easy-to-read liquid crystal displays without switching. Two independent calibration potentiometers for each channel allow individual custom calibration settings for up to two sets of diode detectors or two beams.

Operation of the 22D is simple. Only four switches are needed to select the calibration factors, dose or dose rate and to reset display to zero. It is powered by a single, readily-obtainable, easily-accessible 9-volt battery. An input jack is provided for the UL-listed wall-mount transformer in case AC line operation is desired.

A special inherent feature of the Model 22D is its compatibility with both negative and positive current output diode detectors: EquiDose®II, Isorad, QED, or VeriDose. This flexibility allows utilization of all existing diode detectors and future standardization. When using with detectors that have a 2 or 3 meter cable, one extension cable of suitable length is needed per channel.

EquiDose®II diode detectors

Solid state diode detectors are available to satisfy a wide range of photon and electron energies. Representing the state-of-the-art in diode dosimetry, EquiDose®II detectors feature high impedance, excellent linearity and directional response, and low temperature coefficient.

Features

- ▶ Dual digital display
- ▶ Two calibrations per channel
- ▶ Accepts a wide variety of positive or negative diode detectors
- ▶ Angled front panel for easy reading and control

Specifications

Display	Two displays, one per channel, 3-1/2 digit, 0.5 in LCD
Range	0–1999 cGy, 0–1999 cGy/min
Accuracy	Dose and dose rate, $\pm 1\%$ of reading +1 digit
Zero drift	<0.1 cGy/min
Linearity	$\pm 0.1\%$ +1 digit or precision of reading, whichever is greater
Input connector	Coaxial BNC female
Power	One 9 V alkaline battery, NEDA 1604, external UL-listed 115 VAC wall-mount transformer
Battery life	Approx. 50 hrs continuous, 100 hrs intermittent
Dimensions	25 cm x 20 cm x 10 cm (10 in x 8 in x 4.1 in)
Weight	0.8 kg (1.75 lb)

Accessories

2BM-F10	10 m coaxial extension cable with BNC connectors
2BM-F15	15 m coaxial extension cable with BNC connectors
2BM-L	Connector adaptor, BNC to Lemo