

## Hot-Cell Monitor For PET

The Hot-Cell Monitor Provides a Unique System for Monitoring High Level Isotope Production and Radiochemistry.



This Hot-Cell Monitor answers the need for multiple detectors when you want to locate and measure the activity. The unit monitors gamma and high energy beta emitters with activity levels from 1 mCi to 100 Curies. There is Remote operation for hot-cell and other high level radiation environments. Up to 8 detectors, with either linear or logarithmic output, are powered and monitored simultaneously. Front panel bar displays provide instant, visual information on the movement and accumulation of activity at each detector location. Analog signals, 0-1 volt are provided for computer interfacing.

The miniature, solid state detectors monitor activity at distances of 6 meters or more from the base unit. The detectors are rugged, easy to mount, easy to shield and connect to the base unit with standard BNC connector coax cable.

### FEATURES

- For PET, Chemistry, Nuclide Production and Purification
- Monitors activity in as many as 8 locations
- Reads activities from 1 mCi to 100 Curies

### SPECIFICATIONS

- Base Unit:
- Bar Display (1-8): 10 LED display  
Log, 3 or 6 decade  
Linear, gain adjustable
- Digital Meter: Detector assignable  
Log, 1.0 V / decade  
Linear, gain adjustable
- Back Panel
- Detector Controls (1-8): BNC connectors  
Log, zero adjust  
Linear, gain adjust
- Analog Output (1-8): 0 - 1V / decade  
Log, 1.0 V / decade  
Linear, gain adjustable  
BNC connectors
- Detector - Standard
- Type PIN Diode / CsI/(Na)  
1 x 1 cm<sup>2</sup> effective area
- Configuration: Metal housing, fully potted  
Dimensions, 2.5 x 2.5 cm dia.  
BNC connector

- Sensitivity Range: 0.5 mCi - 100 Ci
- Linearity: ±10%, 1 mCi - 5 Ci
- Operating Temp.: 0 -60° C
- Detector - Ultra-Miniature
- Type PIN Diode / CsI/(Na)  
6 x 6 mm<sup>2</sup> effective area
- Configuration: Epoxy, fully potted  
Dimensions, 1.5 x 1.0 cm dia.  
Flying lead with BNC connector
- Sensitivity Range: 1 mCi - 100 Ci
- Linearity: ±10%, 5 mCi - 5 Ci
- Operating Temp.: 0-50° C

ITEM #	DESCRIPTION
8400-0326	BNC cable, 2 meters
8400-0327	BNC cable, 4 meters
8400-0328	BNC cable, 6 meters

ITEM #	DESCRIPTION
5250-0069	Hot-Cell Monitor Base Unit
5250-0063	Logrithmic channel amplifier electronics, 5 decade range, 1 mCi to 100 Ci
5250-0064	Linear channel amplifier electronics, 2.5 decade adjustable range
1200-0048	Standard, high sensitivity detector, full potted in aluminum housing, 2.5 cm x 2.5 cm (dia)