

Direct Reading Dosimeters and Accessories

These direct reading dosimeters allow the wearer to read accumulated radiation exposure at any given time, without a separate readout device. The integrated exposure is read on a built-in scale that is illuminated by an external light source.

A film badge cannot provide an immediate answer if an overexposure has taken place; but a wearer of a direct reading dosimeter can tell when, where and whether the overexposure took place, and hazardous conditions can be corrected long before film badge readings can be known.

The low energy feature of these dosimeters have hospital applications in fluoroscopy, portable radiography, angiography and mammography.

These dosimeters may be reused repeatedly by resetting to zero with the Model 909 dosimeter charger after the accumulated exposure has been recorded in a log.

Model 06-201-5000, Dosimeter Checker License exempt ► Checks up to five

The Multi-Dosimeter Checker allows the simultaneous testing of up to five direct reading dosimeters. It consists of a plastic cylinder that has five holes around a central, hermeticallysealed 9µCi 137Cs source.

The procedure for checking dosimeters is very simple. Properly charged and zeroed dosimeters are placed in the cylinder and exposed for the required period of time, depending on their range. Typically, a 6-hour exposure of a properly calibrated dosimeter will yield a reading from 25 to 35 mR.

Specifications

Radioactive source:	9 μCi 137 Cs (license-exempt)
Cylinder material:	Gray PVC
Hole dimensions:	2.05 cm diameter x 6.35 cm deep (0.8 in x
	2.5 in)
Outside dimensions:	6.35 cm diameter x 6.35 cm (2.5 in x 2.5 in)
Weight:	200 mg (7 oz)



Specifications

Specifications				
Radiation detected:				
Accuracy:				
Rate dependence:		0		,
Energy response:	. ±15% 20 -	40 keV, ±10%	% 0 - 40 k	keV - 60Co
Detector:	. conductive	plastic ioniz	zation ch	amber
Leakage:	. less than 0. at 50° C	5% of full sca	ale in 24 l	hours
Environmental:		50° C, up to 9	0% R.H.	
Display:	. fiber image	projected o	n interna	l linear scale
Construction:		ermeability por coded clip		ermetically
Zero reset:	with Mode	l 909 dosime	eter char	ger
Dimensions:				
Weight:				,
	. == 3 (= ==)			
Model 138 13	8S 720	725	730	742

Model	138	1385	720	725	730	742	
Range	0 - 200 mR	0 - 2 mSv	0 - 2 R	0 - 5 R	0 - 20 R	0 - 200 R	

Model 909, Dosimeter Charger

This dosimeter charger zeroes all direct-reading dosimeters. One standard 1.5 V D cell permits thousands of chargings. A safety spring in the charging socket prevents damage to dosimeter in event that excessive force is applied during charging. Protective cap keeps the socket free of dust and moisture when charger is not in use.

Specifications

Controls:	one turn potentiometer for dosimeter
	zero adjust
Charging voltage:	adjustable from 40 - 200 VDC
Case:	ABS plastic, blue finish
Power:	one D-cell battery
Dimensions:	10.2 cm x 10.2 cm x 7.6 cm
	(4 in x 4 in x 3 in)
Weight:	0.45 kg (1 lbs)

