

## Model 9 DP Pressurized Ion Chamber

### Features

- 0 to 50 mSv/h (0 to 5 R/hr) Range with  $\mu$ R/hr Sensitivity
- Sunlight Readable Color Display
- Auto Zeroing & Ranging
- Rechargeable Batteries
- Alarms
- Rate, Integrate & Peak Hold Readouts
- Data Logging
- USB Connectivity
- Free Firmware Updates through Internet



The Model 9DP pressurized ion chamber meter provides highly sensitive measurements of exposure and exposure rate. It can simultaneously display the exposure rate and integrated value or the highest rate seen by the instrument. The stunning 256-color bit-mapped display provides an optimized presentation of the data and is accompanied with icons informing the user of the active functions and instrument status. All logged data are written in csv format to a plugged-in, industry standard USB thumb drive for convenient retrieval by a PC spreadsheet or database program. Alarms are manifested using color changes on the display and an audio output.

The state-of-the-art technology of the Model 9DP delivers tremendous capability, user friendliness and convenient PC connectivity. The built-in USB port facilitates password-protected access to parameter settings via direct connection to a standard USB keyboard, thus foregoing any need to install PC application software or dealing with operating system compatibility issues.

Radiation Detected:	Gamma & X-rays above 25 keV Beta above 1 MeV
Detection Range:	R/hr units: 0 - 500 $\mu$ R/hr, 0 - 5 mR/hr, 0 - 50 mR/hr, 0 - 500 mR/hr, 0 - 5 R/hr Sv/h units: 0 - 5 $\mu$ Sv/h, 0 - 50 $\mu$ Sv/h, 0 - 500 $\mu$ Sv/h, 0 - 5 mSv/h, 0 - 50 mSv/h
Chamber Volume:	230 cm <sup>3</sup> (14 in <sup>3</sup> ) volume pressurized to 9 atm (122 psig)
Accuracy:	$\pm$ 10%
LCD Display:	8.9 cm (3.5 in.) diagonal; 240 x 320 (H x W) pixels; TFT active matrix; 262,000 colors; 220 cd/m <sup>2</sup>
Measurement Readouts:	Simultaneous display of rate, integrated reading, and highest rate (peak hold)
User Controls:	4 Pushbuttons: * Instrument On / Off * Peak rate / Integrate mode * Audio On / Off * Alarm acknowledge / Meter reset / Clearing integrated dose or peak rate
Automatic Functions:	Auto ranging, Auto zeroing, Auto LCD backlighting
Response Time:	5 s in lowest range, 2 s in all other ranges, when measuring from 10% to 90% of final value
Alarms:	Two levels of radiation alarms available, each are user programmable throughout entire readout range and set through a PC interface program. Other alarms include low battery and various detector failures.
Audio Outputs:	Built-in unimorph speaker, > 60 dB at 0.6 meters (2 ft.) An optional audio jack can be installed for connecting to an external headset.
Temperature Range:	-20 to 40 °C (-4 to 104 °F)
Power:	Eight rechargeable "AA" NiMH batteries, supplied with wall charger for direct connection to instrument
Battery Life:	12 to 30 hours between charges, depending upon use of backlighting
USB Interface:	Single USB port, may be used to: * Connect a USB keyboard * Connect a USB thumbdrive for storing logged data * Connect to a PC with the optional interface kit for parameter editing and calibration
Data Logging:	Data is stored to detachable USB thumb drive in CSV format for easy retrieval by PC spreadsheet/database programs. Data points include real-time clock generated date and time with rate, integrated reading, and instrument status. Logging time intervals are set by PC interface program or standard USB keyboard.
Construction:	Durable molded plastic with internal metal support
Size:	8.6" H x 4.6" W x 9.6" L
Weight:	3.3 lb

Model 9 DP	Pressurized Ion Chamber
Model 9-DP1	Low Pressure Ion Chamber, Non-Hazmat