



4909 - 75 Avenue
 Edmonton , Alberta T6B 2S3 Canada
 Telephone:780-468-6800
 Facsimile:780-462-9378
 e-mail: sales@russelltech.com
 www.russelltech.com



RDM-1 Digital Dosimeter

Detects Accumulating Dose at the Film to Save You Time !

The RDM-1 Radiation Dose Meter is designed to improve efficiency and quality of radiographic operations by eliminating the need for re-shots. Re-shots are often required if the radiographer mis-calculates the exposure. This can occur if he is given the wrong pipe-wall thickness, or the pipe is full of liquid for instance. With the RDM-1 the radiographer does not need to know the wall thickness, what is in the pipe, or even the source strength. He just watches the display until the dose reaches the appropriate dose for the film type used. The detector wand is placed beside, or just behind the film during the exposure and the 100' or 150' cable is fed back to the display unit which is monitored by the radiographer during the exposure. When the display has reached the target exposure, he terminates the shot. This should lead to perfect radiographs every time.

It is often not necessary to use the RDM-1 for every exposure. It can be used at the start of a job to determine typical exposures for each size of pipe.



Specifications

Sensor Unit:

Radiation detected	Gamma
Detector Type	GM tube
Accuracy	+/- 15% of indicated dose referred to Cs-137
Energy Dependence	+/- 15% from 60keV to 1.3 MeV gammas
Indicators	Green LED for Power Red LED for dose increments (10 mR)
Dimensions	Tube: 1.38 x 8.88 inches (35 x 225mm)
Weight	7 ounces (200g)

Readout Unit:

Range	0-99.99 R in increments of 10 mR
Display	Four-digit LED, with battery test light (push-button activated)
Audible signal	One chirp per 10 mR
Controls	On-off switch, display button, reset/battery-test button
Operating Temperature	-20° to 50° C
Power	Internal Battery: Four AA Alkaline (included). Battery life is 150 hours in normal use. Go/No-Go test lamp (LED lights when battery has adequate charge) External Battery: Power jack for connection to vehicle battery (4-25 volts DC).
Memory	Dosimeter stores dose until reset button is depressed
Maximum Rate	50 R/h for rated accuracy
Dimensions	7.5 x 3 x 2.75 inches (190 x 76 x 70 mm)
Weight	1.5 pounds (680g)