

## AREA ZONE MONITOR DZM 100/100R/100RE



- **Sturdy, Stand alone or Wall mounted**
- **User selectable alarm threshold**
- **Remote, Real-time monitoring of up to 200 instruments**
- **Large LED Display viewable from long distance**

Gamma monitor model DZM100/100R/100RE are microprocessor based instruments designed specifically for remote radiation monitoring. It's main function is to display radiation levels in the work area to caution radiation workers. It alerts the user with Audible/ Visual alarms when preset radiation levels are exceeded. A battery backup provides up to 8 hrs of additional use after the primary power is removed, is a very useful safety feature in areas expecting power failures. It is useful for Industrial Radiography, Nuclear Power Plants, Healthcare and Irradiation facilities.

The PC software enables real-time monitoring of up to 200 DZM100RE instruments connected to a network. The software can be used to configure email alerts as well as generate reports for readings.

## SPECIFICATIONS:

<b>Detector</b>	Shock-proof, halogen quenched GM tube. Internal (DZM100) External with 10m connecting cable for remote measurements (DZM100R/DZM100RE)
<b>Detected Radiation Type</b>	Gamma( $\gamma$ ),X-Ray
<b>Energy Detection Range</b>	50 KeV to 2 MeV
<b>Energy Response</b>	$\pm 30\%$ 200KeV to 2 MeV (Ref Cs-137)
<b>Dose Rate Linearity</b>	$\pm 15\%$ for 200 Kev to 1.3 MeV
<b>Angular Response</b>	$\pm 30\%$ , $\pm 120$ degree (Ref Cs-137)
<b>Minimum Radiation Detection</b>	0.1 mR/hr OR $1 \mu\text{Sv/hr}$
<b>Maximum Radiation Detection</b>	999.9 mR/hr OR 9999 $\mu\text{Sv/hr}$
<b>Display Refresh Rate</b>	1 to 5 seconds (varies as per dose rate intensity)
<b>Display</b>	Extra bright 4 digit seven segment LED display,
<b>Display Resolution</b>	0.01 mR/hr OR $0.1 \mu\text{Sv/hr}$
<b>PC Software (DZM100RE)</b>	<ul style="list-style-type: none"> <li>• Remote viewing of up to 200 monitors</li> <li>• Accessible over the ethernet</li> <li>• Data logging</li> <li>• Alarm setting</li> <li>• Email Alerts</li> <li>• Generate Reports</li> <li>• Viewing for mobile devices</li> </ul>
<b>Measurement Unit</b>	Roentgen or Sievert (User Selectable)
<b>Alarm</b>	<ul style="list-style-type: none"> <li>• User selected, alarm value</li> <li>• Visual (red and green lights) and Audio (siren)</li> <li>• LED indicator on External Probe</li> </ul>
<b>Output Interface</b>	Relay Output NO, NC and COM for Alarm condition
<b>Power Requirement</b>	<ul style="list-style-type: none"> <li>• AC 110V to 240V</li> <li>• Inbuilt rechargeable backup battery</li> </ul>
<b>Operating Temperature</b>	$-10^\circ$ to $50^\circ$ C
<b>Weight</b>	1.5 kg
<b>Dimension</b>	200mm x 186mm x 80mm