

NORM Monitor-IS



The NORM Monitor-IS is an intrinsically safe, weatherproof monitor with dual probe capability (GM and Scintillation). It is the ultimate instrument for obtaining accurate NORM measurements in hazardous areas or difficult conditions. With a robust and reliable design, it allows users to monitor wet and dry NORM in a variety of situations. Its unique, intrinsically safe certification incorporates two different probe options to make it the optimum radiation monitor for surface measurements and NORM surveys.

The scintillation probe brings new benefits:

- Robust and suitable for use in challenging conditions
- The ability to undertake surveys of external walls for internal deposits of NORM*
- The ability to measure NORM in low diameter tubular internals (360 degree response)

The GM probe provides the traditional benefits of:

- Perfect for alpha and beta measurement
- High sensitivity to Pb-210 NORM
- Bq/cm² output for typical NORM isotopes Scintillator: CPS, μ Sv/h, GM: CPS, Bq/cm².

Application's Field :

- Oil and Gas - Mining
- First responders (Military, Firefighter, Police, Customs, ...)
- Environmental agencies
- Life Science
- Research

Specifications

Radiation detected	Scintillator: gamma, high energy beta GM: alpha, beta with some gamma response	Battery	Alkaline Manganese MN1604 or MX1604
Measurement modes	Scintillator: CPS, $\mu\text{Sv/h}$ GM: CPS, Bq/cm^2 All modes have background subtraction option CPM and $\mu\text{R/h}$ option available for USA	Battery life	Scintillator: 85 hours typical GM: 190 hours typical
Dose rate range (scintillator probe)	0.000 to 50 $\mu\text{Sv/h}$ (0.0 - 5000 $\mu\text{R/h}$)	Low battery indication	<10 hours available life remaining
Count range	Scintillator: 0 - 150,000 cps (1 million cpm) GM : 0.00 to 4000 cps (240,000cpm)	Variation with battery voltage	+/-2%
Over-range response	Bar graph display will read full scale. Digital numeric display will read "OUEr"	Working temperature range	-20 to +50°C
Integrate period	Auto = 60 seconds or 1000 counts. User defined = 5 - 600 seconds	Variation with temperature	<10%
Scintillator detector	Nal crystal in metal/polymer enclosure	Humidity range	0 - 95%
GM detector	Single halogen thin window detector in static dissipative nylon housing	Ingress protection rating	Scintillator: IP67 GM: IP34 Handset: IP65
Handset material	Static dissipative nylon	Standard compliance	The monitoring kit meets the following EU directives: 2004/108/EC Electromagnetic Compatibility Directive; 94/9/EC ATEX Directive
Weight	Handset: 500g Scintillator : 700g GM: 435g	Hazardous area certification code	II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +50°C) Intrinsically safe equipment suitable for hazardous area zones 0,1 and 2
		Certificate Nos: ATEX, IECEx	12ATEX0209X IECExBAS12.0114X

Features

- Intrinsically safe - no need for a hot work permit
- ATEX and CSA approved
- Easy to clean and decontaminate
- Digital display and live background subtraction
- Multiple measurement modes
- Bq/cm² output for NORM Isotopes
- Adjustable and audible alarm thresholds for improved safety
- Two detachable probes (GM and Scintillator)

Optional accessories

- Robust, weatherproof transport case
- Extension kit
- Protective leather holder



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