Product Data Sheet

Tracerco™ NORM Monitor-IS

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Alpha, beta and gamma measurement

The Tracerco™ NORM Monitor-IS is an intrinsically safe, weatherproof monitor with dual probe capability. 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.

Benefits

- Intrinsically safe - no need for a hot work permit
- ATEX or CSA approved
- Easy to clean and decontaminate
- Digital display and live background subtraction
- Multiple measurement modes
- Bq/cm^2 output for NORM Isotopes
- Adjustable and audible alarm thresholds for improved safety
- Two detachable probes (GM and Scint) with in built calibration data

Markets

- Oil and Gas
- First responders
- Military
- Life sciences
- Mining
- Nuclear
- Medical
- Environmental agencies

Accessories

- Robust, weatherproof transit case and holster
- Extension pole kit

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Tracerco™ NORM Monitor-IS specification

Performance			
Radiation detected	**Scint:** Gamma, high energy beta **GM:** Alpha, beta, gamma Automatic direct translation to Bq/cm^2 for Pb-210 (wet or dry), Ra-226 (wet or dry), Sr-90, Am-241, C-14, Cl-36	**Over-range response**	**Scint:** Bar graph display will read full scale. Digital numeric display will read "0UEr" **GM:** Bar graphic display will read full scale. Digital numeric display will show 0UEr (over) above 4000 CPS
Scintillator detector	NaI crystal in metal/polymer enclosure	**Integrate period**	Auto = 60 seconds or 1000 counts User defined = 5 - 600 seconds
GM Detector	Single halogen thin window Geiger Muller Tube	**Measurement modes**	**Scint:** CPS, µSv/h **GM:** CPS, bq/cm^2 All modes have a background subtraction options CPM and µR/h available
Count range	**Scint:** 0 - 200,000 cps (1.2 million cpm) **GM:** Bar graph display (0-1000 CPS). Digital numeric display in CPS or Bq/cm^2	**Dose rate range (Scint only)**	0.000 to 50µSv/h (Cs137 only) (0.0 - 5000 µR/h). Dose rate function only to be used in accordance with North American guidance for NORM monitoring - not recommended for general dose rate measurement
Electrical characteristics			
Battery	Varta Energy 6LP3146	**Low battery indication**	On 10 hours battery life remaining
Battery life	**Scint:** Scintillator: 55 hours typically with background radiation **GM:** 190 hours typically with background radiation	**Variation with battery voltage**	**Scint:** +/-2% **GM:** < 2%
Mechanical characteristics			
Case material	Static dissipative nylon body with ABS window	**Weight**	**Scint:** Handset: 500g Scintillator probe: 700g **GM:** Handset: 500g GM probe: 500g (approx.)
Environmental			
Variation with temperature	<10%	**Humidity range**	0 - 95%
Ingress protection rating	**Scint:** Handset: IP65, Scintillator probe: IP67 **GM:** Handset: IP65, GM probe: IP34	**Hazardous area certification code** ATEX: Certification No. Baseefa12ATEX0209X Marking - Ⓔx II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +50°C) IECEx: Certification No. IECEx BAS 12.0114X Marking - Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +50°C) CSA_C: Marking - Class I, Div 1, Gps A,B,C, D T4 (-20°C ≤ Ta ≤ +50°C) Marking - Ex ia, IIC T4 (-20°C ≤ Ta ≤ +50°C) CSA_{US}: Marking - Class I, Div 1, Gps A,B,C, D T4 (-20°C ≤ Ta ≤ +50°C) Marking - Class I, Zone 0, AEx ia, IIC T4 (-20°C ≤ Ta ≤ +50°C)	
Hazardous area classification code ATEX & IECEx: Zone 0, 1, 2 gas group IIA, IIB, IIC $CSA_{C\&US}$: Division 1 & 2, Groups A, B, C and D Zone 0, 1, 2 gas group IIA, IIB, IIC			
Standard compliance EN55011, IEC60079-0, IEC60079-11, IEC61010-1, UL 913, UL 60079-0, UL 60079-11, CSA C22.2 No 0-10, CSA C22.2 No 157-92, CSA 60079-0:07, CSA 60079-11:02			

This monitor is available to purchase with either ATEX/IECEx or CSA certification. Certification type should be specified at the point of quotation/order, and it is the buyers responsibility to ensure equipment is suitable for use.

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