

# NORM Monitor-IS

Intrinsically Safe  
NORM Radiation Monitor



**An intrinsically safe, weatherproof monitor with dual probe capability - the ultimate tool for obtaining accurate NORM Measurements in hazardous areas or difficult conditions.**

The Tracerco™ NORM Monitor-IS allows users to monitor wet and dry NORM in a variety of situations. Its unique, intrinsically safe design incorporates different probe options to make it the optimum measurement tool.

## BENEFITS

- Intrinsically safe
- Easy to clean and decontaminate
- Rugged, shock proof casing for use in all weather conditions
- Digital display and live background subtraction • Multiple measurement modes.
- Bq/cm<sup>2</sup> output for NORM Isotopes
- Adjustable alarm thresholds

The NORM Monitor-IS Handset is available with a Scintillator Probe, a GM Probe or Dual Probes as the NORM Monitor Kit.

**NORM Monitor-IS KIT** - Handset with dual interchangeable probes, supplied in a ruggedized case complete with carrying harness.

**NORM Monitor-IS GM** - configured for one-handed operation with removable GM Probe (replacement for the award winning Tracerco T201 Contamination Monitor)

**NORM Monitor-IS SCINT** - Handset and Scintillator Probe supplied in a transit case complete with carrying harness Both probes have built in calibration data, so they can also be purchased separately and calibrated without the handset.

## Scintillator Probe

- 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)

## GM Probe

- Perfect for alpha and beta measurement
- High sensitivity to Lead-210 NORM
- Rotating Probe head for surface measurements
- \* Subject to wall thickness of pipe

# NORM Monitor-IS

## SPECIFICATION

<b>Radiation detected</b>	Scintillator: gamma, high energy beta GM: alpha. beta with some gamma response
<b>Measurement modes</b>	Scintillator: CPS, uSv/h, GM: CPS, Bq/cm <sup>2</sup> All modes have background subtraction option CPM and uR/h option available for USA
<b>Dose rate range (scintillator probe)</b>	0 -5000 uR/h (0 to 50uSv/h)
<b>Count range</b>	Scintillator: 0 -20,000 cps (1,200,000cpm) GM : 0 to 4000 cps (240,000cpm)
<b>Over-range response</b>	Bar graph display will read full scale. Digital numeric display will read 'OUER "
<b>Integrate period</b>	Auto = 60 seconds or 1000 counts. User defined =5 600 seconds "
<b>Scintillator detector</b>	Nal crystal in metal/polymer enclosure
<b>GM detector</b>	Single halogen thin window detector in sialic dissipative nylon housing
<b>Handset material</b>	Static dissipative nylon
<b>Weight</b>	Handset: 1.1 lb (500 g) Scintillator: 1.5 lb (700 g) GM: .95 lb (435 g)
<b>Battery</b>	Alkaline Manganese, MN1604 or MX1604
<b>Battery life</b>	Scintillator:85 hours typical; GM: 190 hours typical
<b>Low battery indication</b>	<10 hours available life remaining
<b>Variation with battery voltage</b>	0.98
<b>Working temperature range</b>	-4° to 122° F (-20 to +50.C )
<b>Variation with temperature</b>	<10%
<b>Humidity range</b>	0-95%
<b>Ingress protection rating</b>	Scintillator: IP67, GM: 1P34, Handset: IP65
<b>Standard compliance</b>	The monitoring kit meets the following EU directives: 2004/10a/EC Electromagnetic Compatibility Directive; 94/9/EC ATEX Directive
<b>Hazardous area certification code</b>	II 1G Ex ia IIC 14 Ga (-20°C ≤ Ta ≤ +50°C) Intrinsically safe equipment suitable for hazardous area zones 0,1 and 2
<b>Certificate Nos: ATEX,IECEX</b>	12ATEX0209X, IECExBAS12.0114X

