

# TRACERCO™ NORM Monitor-IS



**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.

Key product benefits include:

- 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 to purchase 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 transit 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



**TRACERCO™ 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, $\mu$ Sv/h GM: CPS, Bq/cm <sup>2</sup> All modes have background subtraction option CPM and $\mu$ R/h option available for USA
<b>Dose rate range (scintillator probe)</b>	0.000 to 50 $\mu$ Sv/h (Cs137 only) (0.0 - 5000 $\mu$ R/h)
<b>Count range</b>	Scintillator: 0 - 150,000 cps (1 million cpm) GM : 0.00 to 4000 cps (240,000cpm)
<b>Over-range response</b>	Bar graph display will read full scale. Digital numeric display will read "0UEr"
<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 static dissipative nylon housing
<b>Handset material</b>	Static dissipative nylon
<b>Weight</b>	Handset: 500g Scintillator: 700g GM: 435g
<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>	+/-2%
<b>Working temperature range</b>	-20 to +50°C
<b>Variation with temperature</b>	<10%
<b>Humidity range</b>	0 - 95%
<b>Ingress protection rating</b>	Scintillator: IP67 GM: IP34 Handset: IP65
<b>Standard compliance</b>	EU directives: 2004/108/EC Electromagnetic Compatibility Directive; 94/9/EC ATEX Directive CSA C22.2; CAN / CSA / UL 60079-0; CAN / CSA / UL 60079-11; UL 913 7th Edition
<b>Hazardous area certification code</b>	II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +50°C) Intrinsically safe equipment suitable for hazardous area zones 0,1 and 2 Class 1, Div 1, Groups A, B, C, D; Temp code T4 Class 1, Zone 0, Ex/Axia, IIC, T4
<b>Certificate Nos: ATEX, IECEx CSA</b>	12ATEX0209X IECExBAS12.0114X