

## NORM Monitor-IS



## TRACERCO™ NORM Monitor-IS

An intrinsically safe, weatherproof monitor that includes both scintillator and Geiger Müller (GM) detectors - the ultimate tool for obtaining accurate NORM measurements in hazardous areas or difficult conditions.

The TRACERCO™ NORM Monitor-IS is a ground breaking development that, for the first time, allows users to monitor wet and dry NORM in a variety of situations. Its unique, intrinsically safe design includes both scintillator and GM detectors to make it the optimum measurement tool for areas including:

- Pipeline internals
- External vessel walls
- Wet or sludgy surfaces
- Potentially explosive atmospheres

The scintillator and GM probes included with the TRACERCO™ NORM Monitor-IS are optimized for detecting radium-226, radium-228 and lead-210 based scales.

For increased measurement accuracy the TRACERCO™ NORM Monitor-IS includes a simple, one-touch "integrate" function that allows detection of very low activities.

Live background subtraction and several measurement modes (counts per second, counts per minute, dose rate and surface activity) are also included. This provides a user friendly, automated alternative to traditional NORM calculations.

Key product benefits include:

- Intrinsically safe (no hot work permit required)
- Easy to use and read due to the large LCD screen
- Easy to clean and decontaminate
- Increased accuracy through digital display and integration and live background subtraction
- Rugged, shock proof casing for use in all weather conditions
- Optimized 360° scintillator detection for pipeline internals
- Bq/cm<sup>2</sup> output for typical NORM isotopes (wet and dry)
- Adjustable alarm thresholds for improved safety
- Recalibration can be done without the handset

Note: This monitor is safe to use in areas where there is a continuous presence of flammable gas (Zone 0).



Award Winning  
Radiation Monitoring



## Options and accessories

The TRACERCO™ NORM Monitor-IS is available to purchase with different combinations of handset and probes depending on your requirements.

Further available accessories include spare scintillator probe with embedded calibration, spare GM probe with embedded calibration, GM probe extension arm (90cm), Sr-90 check source and safety signs and labels.

## Did you know...?

We can offer calibration and repair services for all radiation monitors with an optional express service.

We also offer monitors for hire.

For inquiries:

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### TRACERCO™ NORM Monitor-IS specification:

Radiation detected	Scintillator: gamma, high energy beta GM: alpha, beta with some gamma response	Battery	Alkaline Manganese MN1604 or MX1604
Measurement modes	Scintillator: CPS, $\mu$ Sv/h GM: CPS, Bq/cm <sup>2</sup> All modes have background subtraction option CPM and $\mu$ 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 $\mu$ Sv/h (0.0 - 5000 $\mu$ 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 "0UER"	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	NaI 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

#### NA Corporate Headquarters

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