

Tracerco™ NORM-IS

Portable Contamination Monitor

The Tracerco NORM Monitor-IS is an ATEX approved intrinsically safe portable contamination monitor, with dual probe capabilities; Geiger Müller and scintillator, which has been developed specifically to meet the requirements of the Oil and Gas Industry; particularly the measurement of Naturally Occurring Radioactive Material (NORM).

Its principal function is to detect and quantify naturally occurring radioactive isotopes under a wide range of operational conditions.

The monitor kit provides a single instrument platform with dual probe option to deliver optimum measurement capability under the most demanding circumstances.

Although specifically designed to overcome the technical and practical challenges of measuring NORM in the field, the monitor is also able to detect a wide range of man-made isotopes.

Features

- Large, easy to read LCD screen with bar graph and back light.
- One-touch integrate function that allows detection of very low activities for increased measurement accuracy.
- Live background subtraction and several measurement modes.
- Adjustable alarm thresholds for improved safety.
- Easy to clean and decontaminate.



Tracerco

Providing Insight Onsite

Specifications

Mechanical

Handset Meter (Dimensions / Weight)	250 x 110 x 50 mm / 500g
Scintillator Probe (Dimensions / Weight)	220 x 42 mm diameter / 746g
Geiger Probe (Dimensions / Weight)	200 x 85 x 55 mm / 483g
Holsters and Belt	700 g

Environmental

Operating Temperature	-20 to 50°C
Storage Temperature	-20 to 50°C
Humidity	0 - 95%
Shock	Drop tests according to BS EN 60079-0
Vibration	EN ISO 13628-6:2006. 30g, 11 ms
Ingress Protection	Scintillator Probe: IP67 Geiger Müller Probe: IP34 Handset Meter: IP65

Battery

Technology	Alkaline Manganese
Format	PP3 (9v)
Approved Part Numbers	MX1604; MN1604
Battery Life (excluding backlight)	Scintillator Probe: 82 hours Geiger Müller Probe: 190 hours
Low Battery Indication	7.8 Vd.c.

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.tracerco.com

Radiological Performance – Scintillator Probe

Radiation Detected	Gamma, Beta
Sensor Technology	NaI(Tl) scintillation crystal
Units	μSv/h; μR/h; cps; cpm
Dose Rate	0.000 – 50μSv/h (0.0 – 5,000μR/h)
Alarms	Alarm levels configurable for full range in all units Alarms configurable as defined numerical limit or as multiple factor of stored background in 0.5 increments
Overload Response	Over range displayed at 240,000 cps. Derived-units overload figure dependent upon calibration factors.
Variation with Temperature	Less than ±10% over temperature range -20 to +50°C

Radiological Performance – Geiger Müller Probe

Radiation Detected	Alpha, Gamma, Beta
Sensor Technology	Geiger Müller End Window (Pancake)
Units	cps (or cpm); Bq/cm ²
Dose Rate	0.000 – 50μSv/h (0.0 – 5,000μR/h)
Alarms	Alarm levels configurable for full range in all units Alarms configurable as defined numerical limit or as multiple factor of stored background in 0.5 increments
Overload Response	Over range displayed at 4,000 cps. Derived-units overload figure dependent upon calibration factors.
Variation with Temperature	Less than ±10% over temperature range -20 to +50°C



Southern Scientific Limited

Scientific House, The Henfield Business Park
Shoreham Road, Henfield, BN5 9SL, UK

E-mail: info@southernscientific.co.uk

Tel: +44 (0)1273 497600

Fax: +44 (0)1273 497626

www.southernscientific.co.uk

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