

Product Data Sheet

Tracerco™ T402 and T402^{HR}



X-ray and gamma ray measurement

The Tracerco™ T402 and T402^{HR} radiation dose rate monitors have been manufactured to measure dose rate and peak dose exposure. With a lightweight design and robust and reliable housing, the T402 and T402^{HR} provide the perfect solution for handheld radiation monitoring.

Benefits

- Fast response and sensitive to low dose rates (T402)
- Extended range for measurements up to 100 mSv/h / 10,000 mrem/h (T402^{HR})
- Peak dose rate memory – allows maximum exposure levels to be recorded
- Backlight display capability for use in low light
- Audible response with adjustable alarm thresholds
- Ruggedised IP65 rated 6/6 construction and modular integrated electronics

Markets

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

Accessories

- Robust weatherproof transit case
- Protective leather holder
- Extension clamp kit



Tracerco™ T402 and T402^{HR} specification

Performance			
Radiation detected	T402: X-rays and gamma-rays in range 59 keV to 1332 keV T402 ^{HR} : X-rays and gamma-rays in range 33 keV to 1332 keV	Accumulated dose range	T402: Digital numeric display 0-10,000 µSv 0-1,000 mrem T402 ^{HR} : Digital numeric display 0-100 mSv 0-10,000 mrem
Detector	Single halogen, energy compensated Geiger Muller tube	Peak radiation dose rate	T402: Digital numeric display 0-10,000 µSv 0-1,000 mrem T402 ^{HR} : Digital numeric display 0-100 mSv 0-10,000 mrem
Dose rate range	Bar graph display 0-1,000 µSv/h T402: Digital numeric display 0-10,000 µSv/h 0-1,000 mrem/h T402 ^{HR} : Digital numeric display 0-100 mSv/h 0-10,000 mrem/h	Sensitivity data	T402: 1.7 cps per µSv/hr T402 ^{HR} : 0.7 cps per µSv/hr
Electrical characteristics			
Battery	Standard 9V PP3 battery	Low battery indication	On 4 hours battery life remaining
Battery life	100 hours typically with background radiation	Variation with battery voltage	Less than 1%
Mechanical characteristics			
Case material	Robust, chemical resistant polymers	Weight	500 grammes
Environmental			
Variation with temperature	Less than 15% over operating temperature range	Humidity range	0 - 95%
Ingress protection rating	Rated IP65 (dust tight and will withstand water jets)	Standard compliance	EU directives: 2004/108/EC Compatibility Directive