

# Tracerco™ T402 and T402<sup>HR</sup>

## X-ray and gamma ray measurement

The Tracerco™ T402 and T402<sup>HR</sup> 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<sup>HR</sup> 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<sup>HR</sup>)
- 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<sup>HR</sup> specification

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