

# DOSE RATE METER

## GRAETZ GammaTwin S

### Product features

- ▲▲ Small and handy dose rate meter for the measurement of gamma radiation and X-rays for ambient dose rate equivalent  $\dot{H}^*(10)$  and ambient dose equivalent  $H^*(10)$  (local dose) <sup>1)</sup>
- ▲▲ Built-in detector: energy compensated GM tube
- ▲▲ Large digital indication of measured values on LC display (backlit)
- ▲▲ Selectable simultaneous or separate indication of dose and dose rate, additionally analogue indication of dose rate (logarithmic bargraph)
- ▲▲ Display of the dose rate history graph as a search function for the detection of radioactive sources
- ▲▲ 4 preset dose and dose rate alarm thresholds; upon request GRAETZ changes the standard alarm thresholds according to customer requirements
- ▲▲ Switchable acoustic single-pulse indication
- ▲▲ Automatic and continuous storage of the dose into a non-volatile memory
- ▲▲ Storage of the dose and of set parameters even during battery change
- ▲▲ Permanent self test
- ▲▲ Designed for rough use, housing made of aluminium, protection class IP54 (splash proof)
- ▲▲ Menu-driven user navigation
- ▲▲ Supplied with robust nylon bag
- ▲▲ **Connection facility for an external probe:**
  - **18526 D** or **ABG170** for contamination measurement ( $\alpha$ ,  $\beta$ ,  $\gamma$ )
  - **immersion counter tube** ( $\beta$ ,  $\gamma$ )
  - NaI-scintillation probe **2002** for high-sensitive measurements ( $\beta$ ,  $\gamma$ )
- ▲▲ **With connected probe:**
  - Display of measured values in cps
  - Display of the pulse rate history graph as a search function for the detection of radioactive sources or contaminations
  - Pre-selectable alarm thresholds: 2x background or 3x background

<sup>1)</sup> Detecting personal dose requires a measuring instrument with the measurand  $H_p(10)$ .



GammaTwin S with pulse probe 18526 D



GammaTwin S with contamination probe ABG170

Technical Data	
Indication ranges:	Dose rate: 0 nSv/h – 50 mSv/h Dose: 0 nSv – 1.0 Sv
Measuring ranges:	Dose rate: 0.5 $\mu$ Sv/h – 50 mSv/h Dose: 0.5 $\mu$ Sv – 1.0 Sv Cps: according to technical data of the connected probe
Energy range:	40 keV – 1.3 MeV
Dose rate alarm thresholds:	7.5 $\mu$ Sv/h, 25 $\mu$ Sv/h, 40 $\mu$ Sv/h, 300 $\mu$ Sv/h
Dose alarm thresholds:	200 $\mu$ Sv, 500 $\mu$ Sv, 1 mSv, 2 mSv
Temperature range:	-20 °C up to +60 °C
Dimensions:	Approx. 28 x 67 x 105 mm
Weight:	Approx. 200 g (with batteries)
Power supply:	2 batteries 1.5 V (type AAA)
Acoustic alarm:	approx. 80 dB(A) measured in 30 cm distance