



# Dose Rate Measuring System GRAETZ X5C *plus* for personal radiation protection

- dose rate meter for measuring gamma radiation and X-rays
- measurand:  $\dot{H}^*(10)$  (ambient dose rate equivalent)
- detector: energy compensated GM tube
- large, digital indication of measured values on LC-display (illuminable)
- selectable dose rate or dose indication with integration time
- additional quasi-analogue indication of dose rate (3.5 decades, logarithmic bargraph)
- indication of peak and average dose rate value
- 4 free programmable dose and dose rate alarm thresholds
- automatic or manual storage of measured dose rate values together with date and time
- evaluation/indication of residual time for staying in the current radiation field with regard to the maximum allowed dose
- switchable acoustic single-pulse indication
- clear menu-driven user navigation for easy operation, partly secured by password
- storage of set parameters even when the device is switched off or during battery change
- continuous self-testing and monitoring ensure high reliability
- compact metallized housing made of high impact-proof plastic, easy to decontaminate, protection class IP67
- RS-232 interface
- basic unit can be combined either directly or by probe cable with various probes (see separate leaflet):
  - for extending the measuring range up to 10 Sv/h
  - for detecting  $\alpha$ -,  $\beta$ - and  $\gamma$ -radiation
  - for measuring in liquids
  - for measurements at „hard-to-get-to“ places
  - Telescope Probe DE for measurements from a safe distance
  - Scintillation probe 2002 for measuring low dose rates



## Technical Data

Dose rate indication range:	0 nSv/h – 20 mSv/h
PTB-approved dose rate range: <sup>1)</sup>	1.0 µSv/h – 20 mSv/h
Dose indication range:	0 nSv – 10 Sv
Dose measuring range:	0.5 µSv – 10 Sv
Energy range:	40 keV – 1.3 MeV
Dose rate alarm thresholds:	4, free programmable in the range 1 µSv/h – 20 mSv/h
Dose alarm thresholds:	4, free programmable in the range 1 µSv – 10 Sv
Temperature range:	-30°C up to +60°C
Dimensions:	(152 x 82 x 39) mm
Weight:	approx. 400 g
Power supply:	9V battery 6LR61
Alarm:	80 dB(A) measured in 30 cm distance
PTB Approval No.:	23.51/04.01
German Fire Brigades Approval No.:	DL/FW/IdF 080221/1

<sup>1)</sup> PTB-approved measuring range for measurements specifically demanded by German regulations

12/2013

Subject to  
technical change

