



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

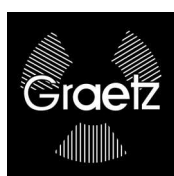
- dose rate meter for measuring gamma radiation and X-rays for the ambient dose equivalent rate  $\dot{H}^*(10)$
- detector: energy compensated GM-tube
- large, digital indication of measured values on LC-display (illuminable)
- selectable dose rate or dose indication with integration time
- additional 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 also when the device is switched off or during battery replacement
- continuous self-testing and monitoring ensure high reliability
- compact metallized housing made of high impact-proof plastic, easy to decontaminate, protection class IP67
- power supply by 9V-energy block 6LR61
- 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 D for measuring low dose rates
- when using GRAETZ „CE“-probes, measurand is  $\dot{H}^*(10)$  (ambient dose equivalent rate)
- when using GRAETZ „D/DE“-probes, measurand is  $H_x$  (photon dose equivalent rate)



## Technical Data

<b>Measuring ranges:</b>	
– dose rate	0 nSv/h – 20 mSv/h
– PTB-approved dose rate <sup>1)</sup>	1,0 $\mu$ Sv/h – 20 mSv/h
– dose:	0,5 $\mu$ Sv – 10 Sv
<b>Energy range:</b>	40 keV – 1,3 MeV
<b>Dose rate alarm thresholds:</b>	4, free programmable in the range 1 $\mu$ Sv/h – 20 mSv/h
<b>Dose alarm thresholds:</b>	4, free programmable in the range 1 $\mu$ Sv – 10 Sv
<b>Temperature range:</b>	-30 °C up to + 60 °C
<b>Dimensions / Weight:</b>	(152 x 82 x 39) mm / approx. 400 g
<b>PTB – Approval No.:</b>	23.51 / 04.01
<b>German Fire Brigades Approval No.:</b>	DW/FW/IdF 040411

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



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