

# DOSE RATE MEASURING SYSTEM

## GRAETZ X5C *plus* SE

### for personal radiation protection

#### Product features

- ▲▲ Special version of the PTB approved X5C *plus* with additional features
- ▲▲ Dose rate meter for the measurement of gamma radiation and X-rays for ambient dose rate equivalent  $H^*(10)$
- ▲▲ Detector: energy compensated GM tube
- ▲▲ Large digital indication of measured values on LC display; illuminable and with colored (red) warning function
- ▲▲ 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
- ▲▲ Four 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 metallised housing made of high impact-proof plastic, easy to decontaminate, protection class IP67
- ▲▲ RS-232 interface
- ▲▲ Soon optionally also available with readout software
- ▲▲ 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 – 19.99 mSv/h
Dose rate range:	1 $\mu$ Sv/h – 19.99 mSv/h
Dose indication range:	0.01 nSv – 10 Sv
Dose measuring range:	0.5 $\mu$ Sv – 10 Sv
Energy range:	40 keV – 1.3 MeV
Dose rate alarm thresholds:	4 (standard: 7.5 $\mu$ Sv/h, 25 $\mu$ Sv/h, 40 $\mu$ Sv/h, 300 $\mu$ Sv/h), free programmable in the range 1 $\mu$ Sv/h – 19.99 mSv/h
Dose alarm thresholds:	4 (standard: 200 $\mu$ Sv, 500 $\mu$ Sv, 1000 $\mu$ Sv, 2 mSv), free programmable in the range 1 $\mu$ Sv – 10 Sv
Temperature range:	-30°C up to +60°C
Dimensions:	152 x 82 x 39 mm
Weight:	approx. 385 g
Power supply:	9V battery
Acoustic alarm:	65 dB(A) measured in 30 cm distance
According to German Fire Brigades Approval No.:	DL/FW/IdF 080221/1