



# Dose Rate Meter GRAETZ X 5 CEx

for your personal radiation protection and  
the use in potentially explosive atmospheres

- PTB-approved dose rate meter for measuring gamma radiation and X-rays for the measuring size  $\dot{H}^*$  (10) (ambient dose equivalent rate)
- detector: energy compensated Geiger-Müller tube
- large, digital indication of measured values on LC-display (illuminable)
- selectable dose rate or dose indication (with integration time)
- additional quasi-analog indication of dose rate (3,5 decades, logarithmic bar graph)
- indication of peak and average value of dose rate
- 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 maximum allowed dose
- switchable acoustic single-pulse indication
- menu-driven operator guidance for easy operation, partly secured by password
- storage of set parameters also when device is switched off
- continuous self-testing and monitoring to ensure high reliability
- metallized, compact housing made of high impact-proof plastic (easy to decontaminate), sealed for submersion up to 1 m depth (IP67)
- power supply by firmly installed 9V accumulator
- external probe for measurements at „hard-to-get-to“ places
- automatic probe identification
- EMC-proof

### Absolutely necessary accessories:

- Recharger 461 L for recharging the built-in accumulator

### Optional accessories:

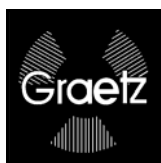
- Probe 18 550 CEx for measurements at „hard-to-get-to“ places
- Probe cable „CEx“, length: 1,25 m (not extendable)
- Leather bag „D“ for accommodating the basic unit, the probe and the cable



## Technical Data

Measuring Instrument	X 5 CEx	Probe 18 550 CEx
<b>Measuring ranges:</b>		
- dose rate	0 nSv/h – 20 mSv/h	
- dose	0 nSv – 10 Sv	
- PTB dose rate <sup>1)</sup>	1,0 µSv/h – 20 mSv/h	10 µSv/h – 20 mSv/h
<b>Energy range:</b>	40 keV – 1,3 MeV	75 keV – 1,3 MeV
<b>Dose rate alarm thresholds:</b>	4, free programmable, 0 µSv/h – 20 mSv/h	
<b>Dose alarm thresholds:</b>	4, free programmable, 1 µSv – 10 Sv	
<b>Temperature range:</b>	- 20 °C up to +40 °C	
<b>Dimensions / Weight:</b>	(152 x 82 x 39) mm, approx. 475 g	Ø 40 mm x 126 mm, approx. 250 g
<b>PTB-Approval No.:</b>	23.51 / 05.02	none
<b>ATEX-Approval No.:</b> (acc. to directive 94/9/EG)	BVS PP 04.2028 EG	
<b>Marking:</b>	II 2G EEx i b II BT6 I M2 EEx i b I	

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



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