

GMS595

WIDE-RANGE GAMMA DOSE-RATE MONITOR



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PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

The **GMS595** wide-range gamma dose rate monitor combines the measurement range of a suite of gas-filled detectors into a single hand-held instrument.

Capable of accurately measuring dose-rates from nSv/hr to Sv/hr, the **GMS595** is simple to operate, quick to set up and environmentally stable.

ENERGY RANGE AND ACCURACY

The **GMS595** boasts an impressive energy response from 32 keV to 7.5 MeV, covering the entire gamma radiation spectrum. Unlike conventional gas-filled detectors, which require warm-up time and are affected by temperature and pressure, the **GMS595** operates seamlessly without delays. From nano Sieverts per hour (nSv/hr) to 1 Sievert per hour (Sv/hr), this instrument provides accurate measurements across the entire dose-rate spectrum.

INSTANT DETECTION CAPABILITY

Operators no longer need to wait minutes for their instruments to stabilise. With the **GMS595**, detection capability is instantaneous: just two seconds from power-on. This efficiency significantly enhances field operations, allowing professionals to focus on tasks without unnecessary delays.

PULSED GAMMA AND X-RAY FIELDS

The latest development in the **GMS595**'s capabilities is its ability to measure dose rates in pulsed gamma and x-ray fields. This breakthrough extends its applications beyond traditional gamma monitoring. Now, radiation protection professionals can confidently use the **GMS595** for non-destructive testing (NDT) and shielding surveys, even in high-powered betatron and x-ray generator environments.

FEATURES AT A GLANCE

- Energy response 32keV to 7.5MeV
H*10 ambient dose equivalence
- Integrated dose feature
- Plastic scintillation detector
- Dose-rate measurement range
100nSv⁻¹ to 500mSv⁻¹
- Dose measurement range 100nSv
to better than 1.75Sv
- Linearity of $\pm 10\%$
- 2 Modes of display: dose rate
and total dose
- Temperature-compensated
- Operating temperature 0°C to +40°C
- Calibration procedure in accordance
with GPG No14

TECHNICAL SPECIFICATIONS

Range	<0.10 μ Sv ⁻¹ to 999mSv ⁻¹
Energy Response	32keV (13% under response) to 7.5MeV
Linearity	$\pm 10\%$
Detector	Tissue Equivalent Plastic Scintillator
Response Time	2 seconds
Temperature Range	0°C to +40°C
Display	64 x 128 pixel LCD display. Single range in units of μ Sv ⁻¹
Power Requirements	2 x Durcell Industrial LR14 'C' type alkaline cells
Battery Life	Over 50 hours
Weight	1.58 kg
Dimensions	L: 330mm x W: 90mm x H:145mm
Testing and Certification	EMC & Full Type Test supplied on request
CASE	
Inc. GMS595 and Batteries	4.6 kg
Dimensions	L: 410mm W: 350mm D: 200mm

All specifications correct at time of printing
- Please check for alterations before purchase

USES

- Radiation monitoring
- Radiation Clean-up
- Shielding Validation
- Betatron & X-ray measurements
- Non Destructive Testing
- Waste Assay / Clearance
- Research

PROUDLY SUPPLYING THE **NDT** INDUSTRY FOR OVER **40 YEARS**

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