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POWER PLANTS



WASTE
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NUCLEAR
MEDICINE

MDG-04, MDG-08e SMART DOSE RATE METERS



MAIN ADVANTAGES

- A wide range of dose rate from background levels up to 10 Gy/h (Sv/h)
- Automatic detection of G-M detectors failure
- Two adjustable alarm levels with relay output
- Archiving of values for at least 180 days
- The meter does not contain a radioactive check source
- Suitable for outdoor use

PURPOSE

MDG-04 detectors are designed for the measurement of air kerma rates, especially in plant area and process measurements.

MDG-08e detectors are designed for dose rate measurement, especially in area and environmental monitoring.

As standard, the detectors are equipped with two G-M tubes. Some models are also equipped with one additional check G-M tube. Each monitor's internal processor control unit converts the G-M detectors raw signals to the actual and average measurement values, archives the average values for later retrieval and ensures automatic fault detection. In selected versions with a GM control detector, the control unit also provides advanced automatic detector fault detection.

All detector elements are sealed in a watertight cylindrical metal case.

RELATED PRODUCTS

ASU-50	Alarm Slave Unit
RDU-22	Radiation Display Unit
RMS	Radiation Monitoring System



Radiation Display Unit RDU-22

SMART DOSE RATE METERS

MDG-04

SPECIFICATIONS

Quantity	Air kerma rate
Detector	G-M tube
Advanced automatic fault detection	
- K1743-01	Yes
- K1743-03	No
Measurement range	from 1 E-7 to 1 E+1 Gy/h
Energy range	from 0.05 to 8 MeV
Temperature measurement inside the detector	from -40 to +85 °C
Dimensions (Ø × V)	
- K1743-01	68 × 325 mm
- K1743-03	68 × 250 mm
Weight	approx. 0.9 kg
IP	66
Power supply	12/24 V DC
Temperature range	from -40 to +70 °C
Humidity range	max. 100 % non-condensing
Communication interface	RS-485
Compliance	IEC 60532
Classification according to EN 61226	C

MDG-08e

SPECIFICATIONS

Quantity	Dose equivalent rate
Detector	G-M tube
Advanced automatic fault detection	
- K1746-01	Yes
- K1746-02	No
Measurement range	from 1 E-8 to 1 E+1 Sv/h
Energy range	from 0.05 to 8 MeV
Temperature measurement inside the detector	from -40 to +85 °C
Dimensions (Ø × V)	
- K1746-01	68 × 557 mm
- K1746-02	65 × 483 mm
Weight	approx. 1.2 kg
IP	66
Power supply	12/24 V DC
Temperature range	from -40 to +70 °C
Humidity range	max. 100 % non-condensing
Communication interface	RS-485
Compliance	IEC 60532, IEC 60846-1
Classification according to EN 61226	C