

Stationary Dose Rate Supervising Device

RMS ODL 1-6



RMS ODL-1

Use and function

The **RMS ODL** alarm monitors are used to control permanently the dose rate measurement level in the laboratory and in production facilities. The systems consist of a basic device with LCD display and electronics, combined with one or more probes and external alarm units.

Depending on the version, it is possible to connect 1 – 6 detectors to the **RMS ODL** basic device.

The stand-alone **RMS ODL**-systems can be linked to a superior PC-system for central monitoring and documentation

Description

- × For permanent supervision of dose and dose rate
- × Power supply 110 – 240 VAC / 47 – 63 Hz
- × From one up to six dose rate probes connectable
- × Display of measurement value for each channel (probe).
- × easy to handle
- × Displays for dose, dose rate, automatically switching to pre-alarm or alarm mode
- × decentralized supervising of dose and dose rate over LAN or RS232
- × Data – export over USB and RS232
- × minimal Maintenance
- × Micro controlled electronics with real time operating system

Applications

- × For working place and room monitoring, e.g. hot cells, laboratories etc.
- × software for continuous dose rate measurement, including data storage
- × For system monitoring e.g. isotope production
- × Station- or Patients monitoring at nuclear medicine/radiotherapies
- × Selection of radioactive waste in segregation lines
- × Monitoring of non-destructive Testing devices
- × Monitoring of collective points for radioactive objects

Software

All measurement data can be displayed graphically by the software for measurement and data storage. Therefore the dose rate measurement values can be displayed in a curve, as a function of time. During the actual monitoring process, the lamp symbols (green/yellow/red) can be shown for a quick interpretation of the measurement values.

Options and accessories

External alarm units

Alarm units, e.g. the LED-lamp with 3 levels, can be connected to all RMS ODL-systems to visualize an optical alarm. The LED-lamps are available in different versions (1/2/3 levels, with or without acoustics, flashlight).

They can be ordered for wall mounting as well as for desktop or build-up installation.

Additional external display

Depending on the local circumstances it may be necessary to display the measuring value of one or more detectors at the measurement or monitoring place, apart from the central measurement display of the **RMS ODL**.

The external measurement display offers a high comfort with task-specific parameter setting.

Versions and detectors

The **RMS ODL** -system is available in six versions:

- * **RMS ODL-1** single-channel system, 1 detector connectable
- * **RMS ODL-2** multi-channel system, up to 2 detectors connectable
- * **RMS ODL-3** multi-channel system, up to 3 detectors connectable
- * **RMS ODL-4** multi-channel system, up to 4 detectors connectable
- * **RMS ODL-5** multi-channel system, up to 5 detectors connectable
- * **RMS ODL-6** multi-channel system, up to 6 detectors connectable

Type	Energy range	Measurement range	Dimensions, weight
Dose Rate Probe H100305 GM	35 keV – 2.0 MeV	0.3 µSv/h – 5 Sv/h	length 270 mm, Ø 142,5 mm, 1800 g

Technical Data RMS ODL 1-6

Casing	Steel / Aluminum
Dimensions	360 x 220 x 250 mm (L x B x H)
Weight	Ca. 6 kg
Power Supply	110 – 240 VAC / 47 – 63 Hz
Consumption	20 – 40 VA
Temperature Range	0° C ...+50° C, 0 - 95% relative humidity, not condensing
Protection	IP54
Interfaces	3 x floating contacts for e.g. alarm, operating state, interlock etc. 1 x RS232 for data transfer 1 x USB for data transfer 1 x LAN for network supervision (optionally)
Display	6.4" TFT Touch Display
Alarm function	Optical and acoustical, optionally external alarm unit