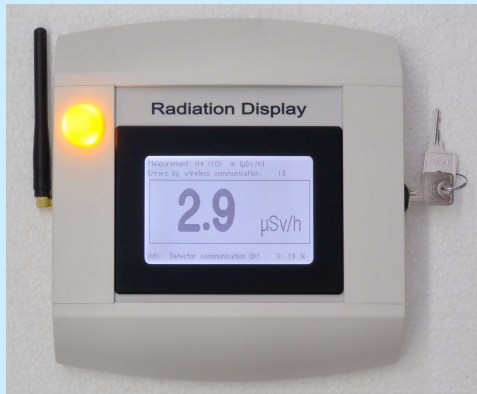


Wireless- Doserate- Measurement System RMon 2



Wireless working, fixed installable radiation measuring system, consisting of intelligent radioactivity detector SON41 and display unit AT-NG-L.

The system is used to survey and display the ambient equivalent dose rate $dH^*(10)/dt$ in the measurement range $0.1 \mu\text{Sv/h}$ to $999 \mu\text{Sv/h}$. The data communication is transmitted via radio. The system components are designed for continuous operation for 24 hours per day, 365 days per year.

Fields of application:

- Dose rate monitoring system for use in nuclear medicine
- Area monitoring (e.g. manufacturing of radionuclides, laboratories, nuclear power plants, or storage facilities of radioactive materials)
- Radiological evaluation of working places
- Patients monitoring in the nuclear medicine

Features:

- Easy to use
- Wide measuring range: $0.1 \mu\text{Sv/h}$... $999 \mu\text{Sv/h}$
- Setting of the measurement unit and 2 alarm thresholds
- Large graphic display 240×128 Pixel / 96×60 mm with background lightning
- measured value representation with a font size of 25 mm
- Widely visible warning light for the alarm thresholds (green / yellow / red) and also for system error
- Alarm indication by counting tube overload
- Wireless transmission of measured values up to 40 km (free view) and up to 500 m in buildings (depending on building conditions)

Intelligent Detector SON41	
Measurand:	ambient equivalent dose rate $dH^{*(10)} / dt$ (calibrated to Cs-137)
Detector:	Geiger-Mueller counting tube (optional without energy compensation)
Measurement range:	0.1 ... 999 $\mu\text{Sv/h}$
Collimator:	internal (optional)
Energy range:	40 keV ... 1.3 MeV
Sensitivity:	Depending on GM-tube 1.6 - 17 cps per $\mu\text{Sv/h}$ (related to Cs-137)
Power supply:	100 – 240 VAC 50/60 Hz
Temperature range:	0 °C ... + 50 °C
Data output:	RS232 - RS485 – Radio (selectively)
Radio transmission:	certified, proprietary 868 MHz protocol for european applications (optional 2,4 GHz by IEEE 802.15.4) transmission power: up to +25 dBm (315 mW) operating distance: up to 500 m (in buildings) up to 40 km (outdoors)
Dimensions (L x B x H):	350 mm x 120 mm x 80 mm (without antenna)
Weight with / without collimator:	5000 g / 2500 g
Intelligent Display AT-NG-L	
Display:	Graphic display 240 x 128 Pixel Size: 96 x 60 mm
Font size:	max. 25 mm
Power supply:	100 – 240 VAC 50/60 Hz
Data reception:	RS232 - RS485 – Radio (selectively)
Radio transmission:	certified, proprietary 868 MHz protocol for european applications (optional 2,4 GHz by IEEE 802.15.4)
Temperature range:	0 °C ... + 50 °C
Dimensions (L x B x H):	250 mm x 200 mm x 50 mm (with internal antenna)
Weight:	1000 g

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